FIG. 1b

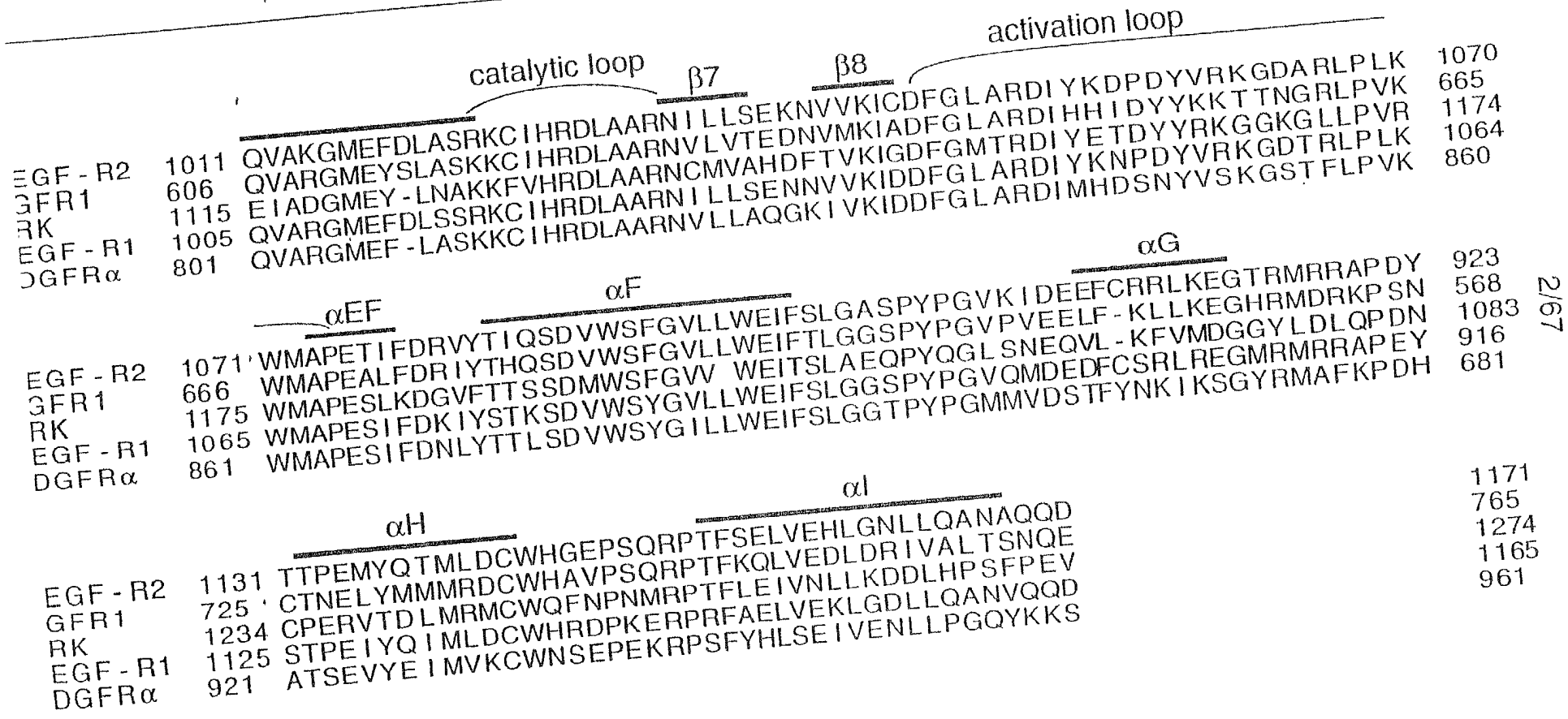

catalytic loop
β7
β8
activation loop
αEF
αF
αG
αH
αI
EGF-R2 1011 QVAKGMEFDLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLK 1070
GFR1 606 QVARGMEYSLASKKCIHRDLAARNVLVTEDNVMKIADFGLARDIHHIDYYKKTTNGRLPVK 665
RK 1115 EIADGMEY-LNAKKFVHRDLAARNCMVAHDFTVKIGDFGMTRDIYETDYYRKGGKGLLPVR 1174
EGF-R1 1005 QVARGMEFDLSSRKCIHRDLAARNILLSENNVVKIDDFGLARDIYKNPDYVRKGDTRLPLK 1064
DGFRα 801 QVARGMEF-LASKKCIHRDLAARNVLLAQGKIVKIDDFGLARDIMHDSNYVSKGSTFLPVK 860
EGF-R2 1071 WMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEEFCRRLKEGTRMRRAPDY 923
GFR1 666 WMAPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGVPVEELF-KLLKEGHRMDRKPSN 568
RK 1175 WMAPESLKDGVFTTSSDMWSFGVV WEITSLAEQPYQGLSNEQVL-KFVMDGGYLDLQPDN 1083
EGF-R1 1065 WMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYPGVQMDEDFCSRLREGMRMRRAPEY 916
DGFRα 861 WMAPESIFDNLYTTLSDVWSYGILLWEIFSLGGTPYPGMMVDSTFYNKIKSGYRMAFKPDH 681
EGF-R2 1131 TTPEMYQTMLDCWHGEPSQRPTFSELVEHLGNLLQANAQQD 1171
GFR1 725 CTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQE 765
RK 1234 CPERVTDLMRMCWQFNPNMRPTFLEIVNLLKDDLHPSFPEV 1274
EGF-R1 1125 STPEIYQIMLDCWHRDPKERPRFAELVEKLGDLLQANVQQD 1165
DGFRα 921 ATSEVYEIMVKCWNSEPEKRPSFYHLSEIVENLLPGQYKKS 961

FIG. 1a

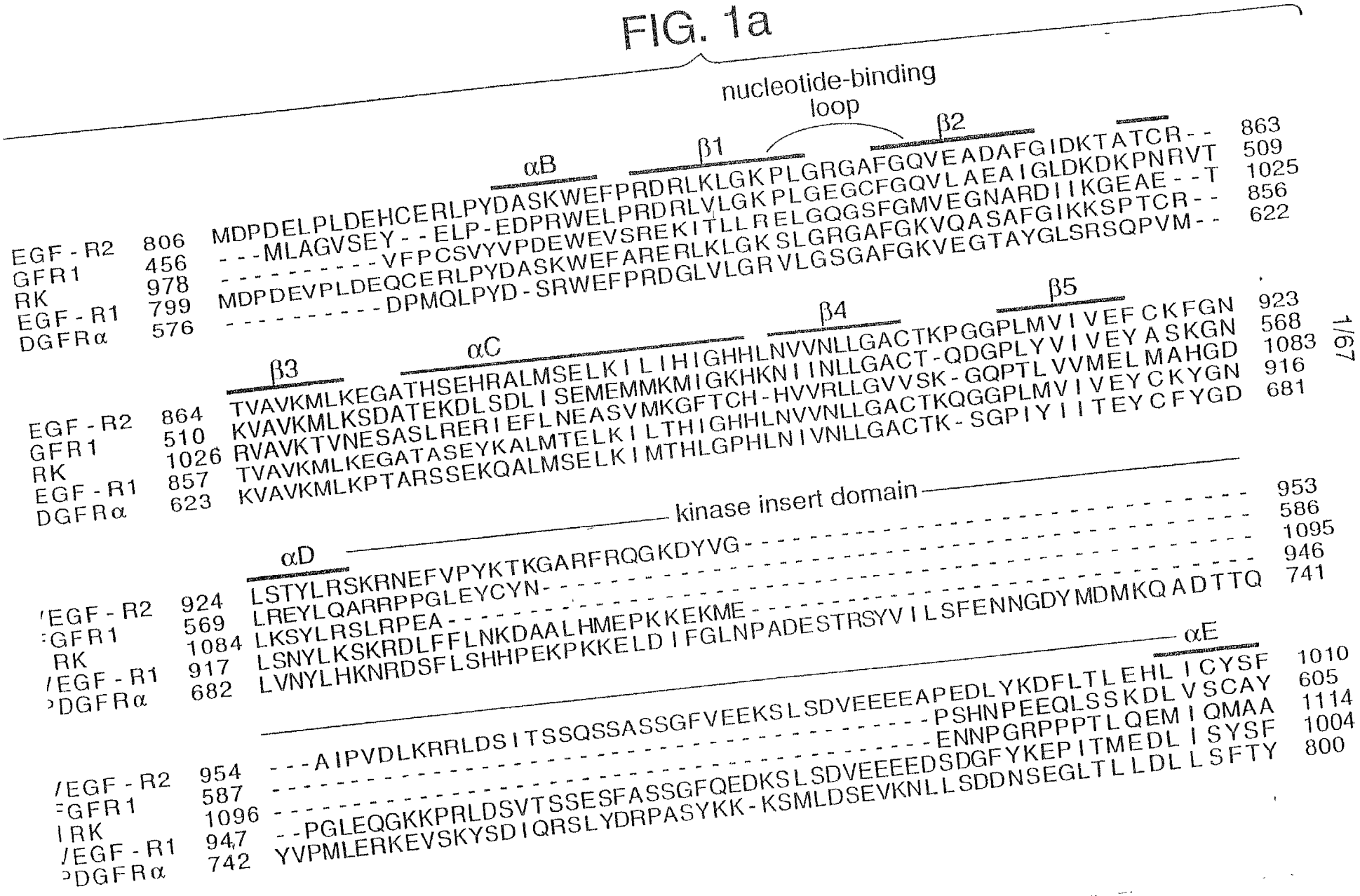
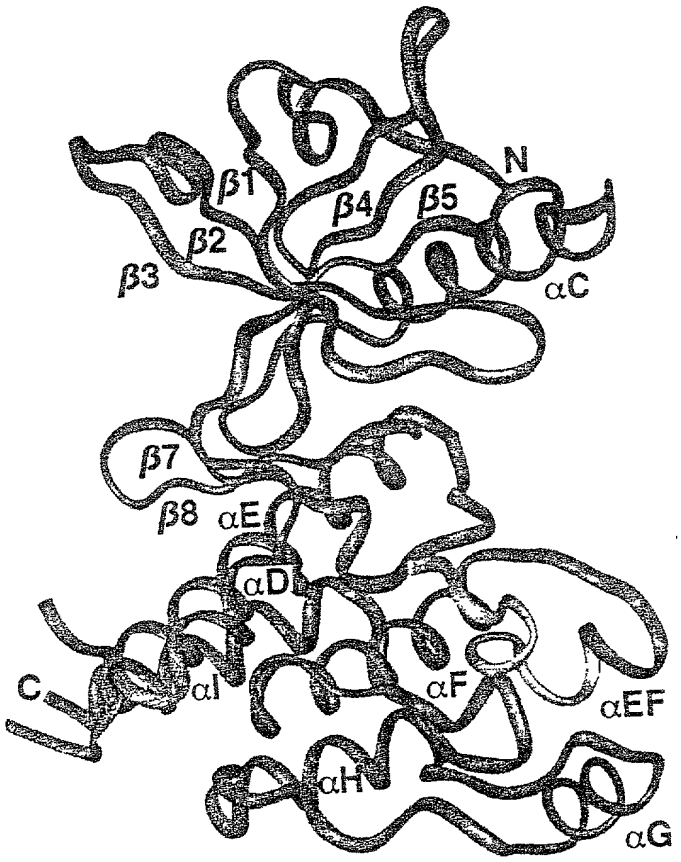
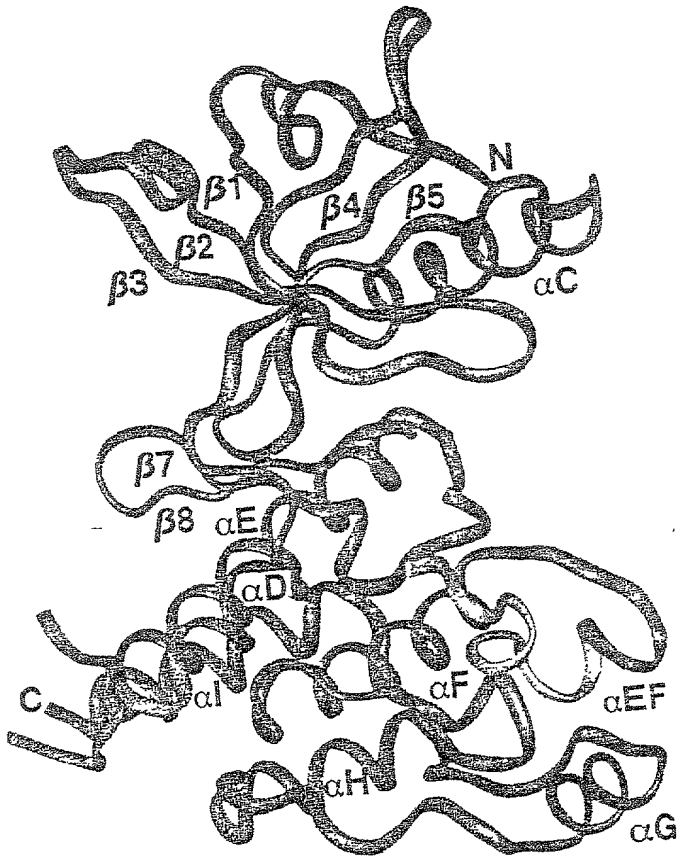

nucleotide-binding
loop
αB
β1
β2
β3
αC
β4
β5
αD
kinase insert domain
αE
EGF-R2 806 MDPDELPLDEHCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVEADAFGIDKTATCR-- 863
GFR1 456 ---MLAGVSEY--ELP-EDPRWELPRDRLVLGKPLGEGCFGQVLAEAIGLDKDKPNRVT 509
RK 978 ----------VFPCSVYVPDEWEVSREKITLLRELGQGSFGMVEGNARDIIKGEAE--T 1025
EGF-R1 799 MDPDEVPLDEQCERLPYDASKWEFARERLKLGKSLGRGAFGKVQASAFGIKKSPTCR-- 856
DGFRα 576 ----------DPMQLPYD-SRWEFPRDGLVLGRVLGSGAFGKVEGTAYGLSRSQPVM-- 622
EGF-R2 864 TVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLLGACTKPGGPLMVIVEFCKFGN 923
GFR1 510 KVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNIINLLGACT-QDGPLYVIVEYASKGN 568
RK 1026 RVAVKTVNESASLRERIEFLNEASVMKGFTCH-HVVRLLGVVSK-GQPTLVVMELMAHGD 1083
EGF-R1 857 TVAVKMLKEGATASEYKALMTELKILTHIGHHLNVVNLLGACTK-SGPIYIITEYCFYGD 916
DGFRα 623 KVAVKMLKPTARSSEKQALMSELKIMTHLGPHLNIVNLLGACTK-SGPIYIITEYCFYGD 681
EGF-R2 924 LSTYLRSKRNEFVPYKTKGARFRQGKDYVG---------- 953
GFR1 569 LREYLQARRPPGLEYCYN---------- 586
RK 1084 LKSYLRSLRPEA---------- 1095
EGF-R1 917 LSNYLKSKRDLFFLNKDAALHMEPKKEKME---------- 946
DGFRα 682 LVNYLHKNRDSFLSHHPEKPKKELDIFGLNPADESTRSYVILSFENNGDYMDMKQADTTQ 741
EGF-R2 954 ---AIPVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEAPEDLYKDFLTLEHLICYSF 1010
GFR1 587 ----------PSHNPEEQLSSKDLVSCAY 605
RK 1096 ----------ENNPGRPPPTLQEMIQMAA 1114
EGF-R1 947 --PGLEQGKKPRLDSVTSSESFASSGFQEDKSLSDVEEEEDSDGFYKEPITMEDLISYSF 1004
DGFRα 742 YVPMLERKEVSKYSDIQRSLYDRPASYKK-KSMLDSEVKNLLSDDNSEGLTLLDLLSFTY 800

FIG. 2a



VEGFR2D50P

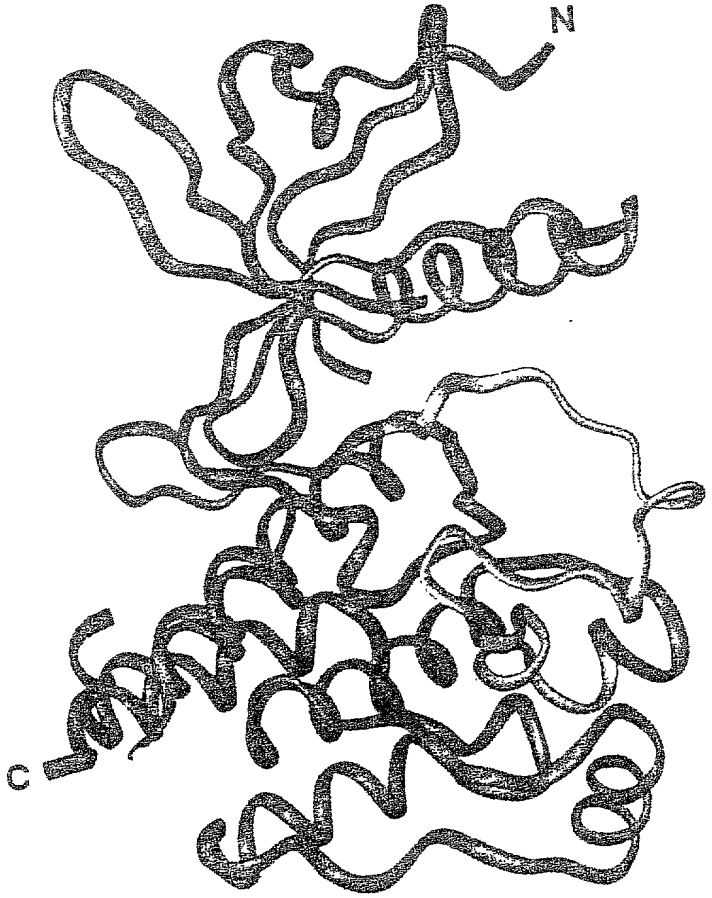
FIG. 2a



VEGFR2D50P

PCT/US2003/029354

FIG. 2b



FGFR1

FIG. 2c

IRKP

FIG. 3a

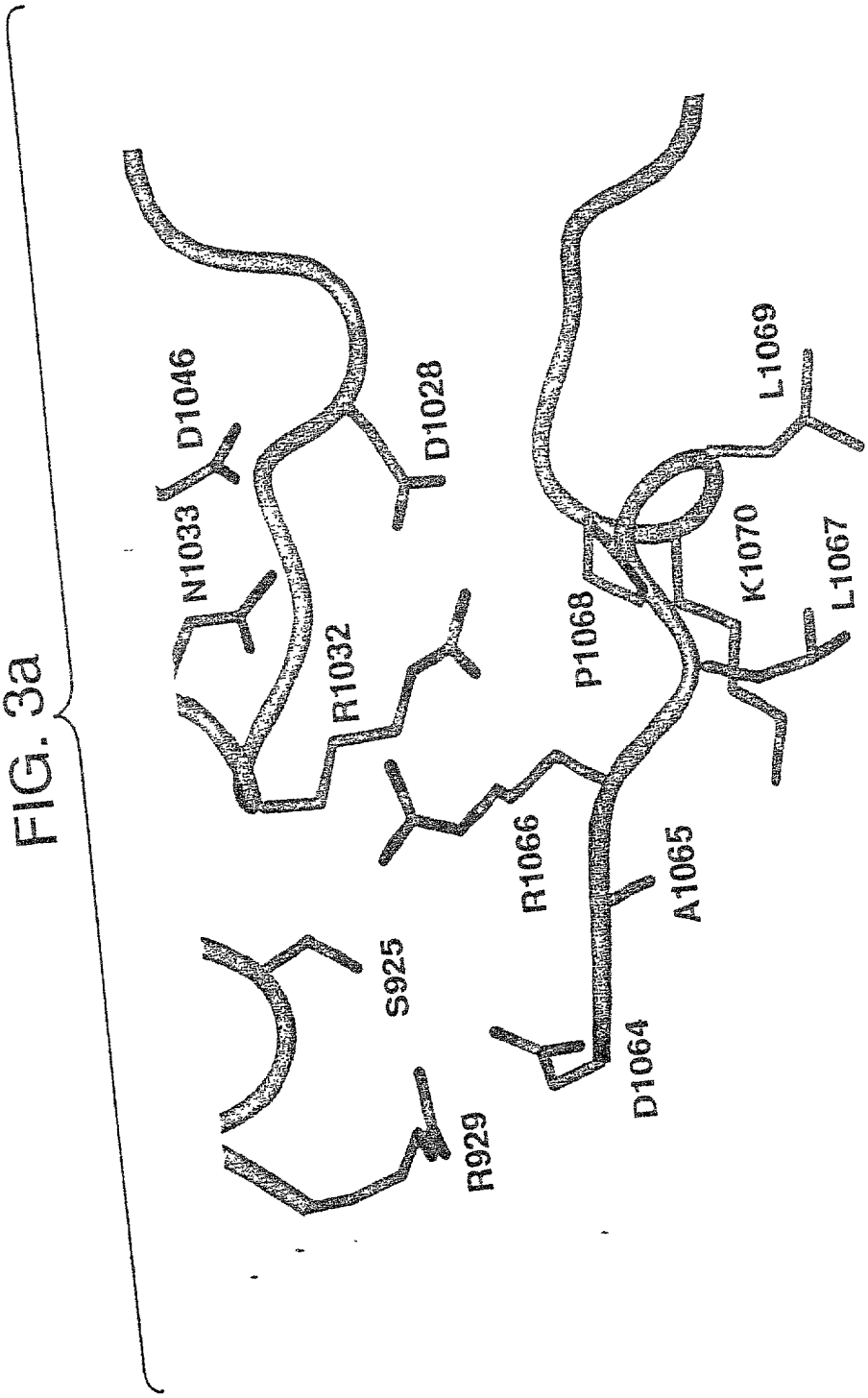

D1046
D1028
N1033
R1032
P1068
L1069
K1070
L1067
R1066
A1065
S925
D1064
R929

FIG. 3b

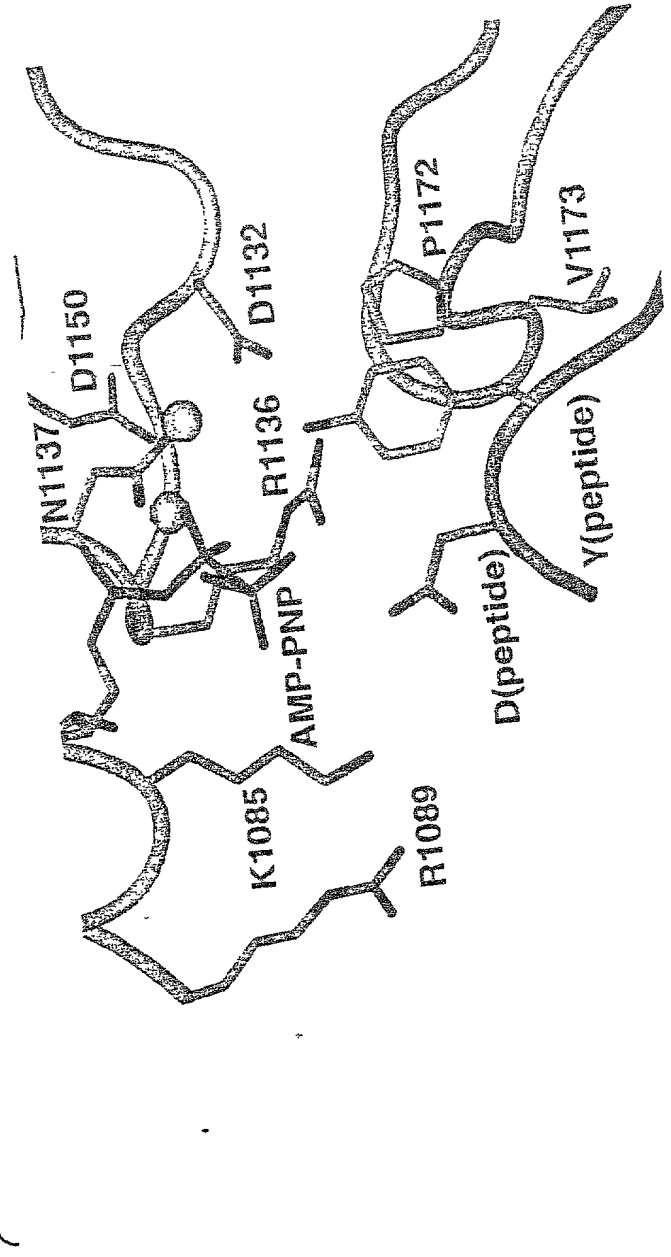

N1137
D1150
D1132
R1136
AMP-PNP
K1085
R1089
D(peptide)
P1172
V1173
Y(peptide)

FIG. 4

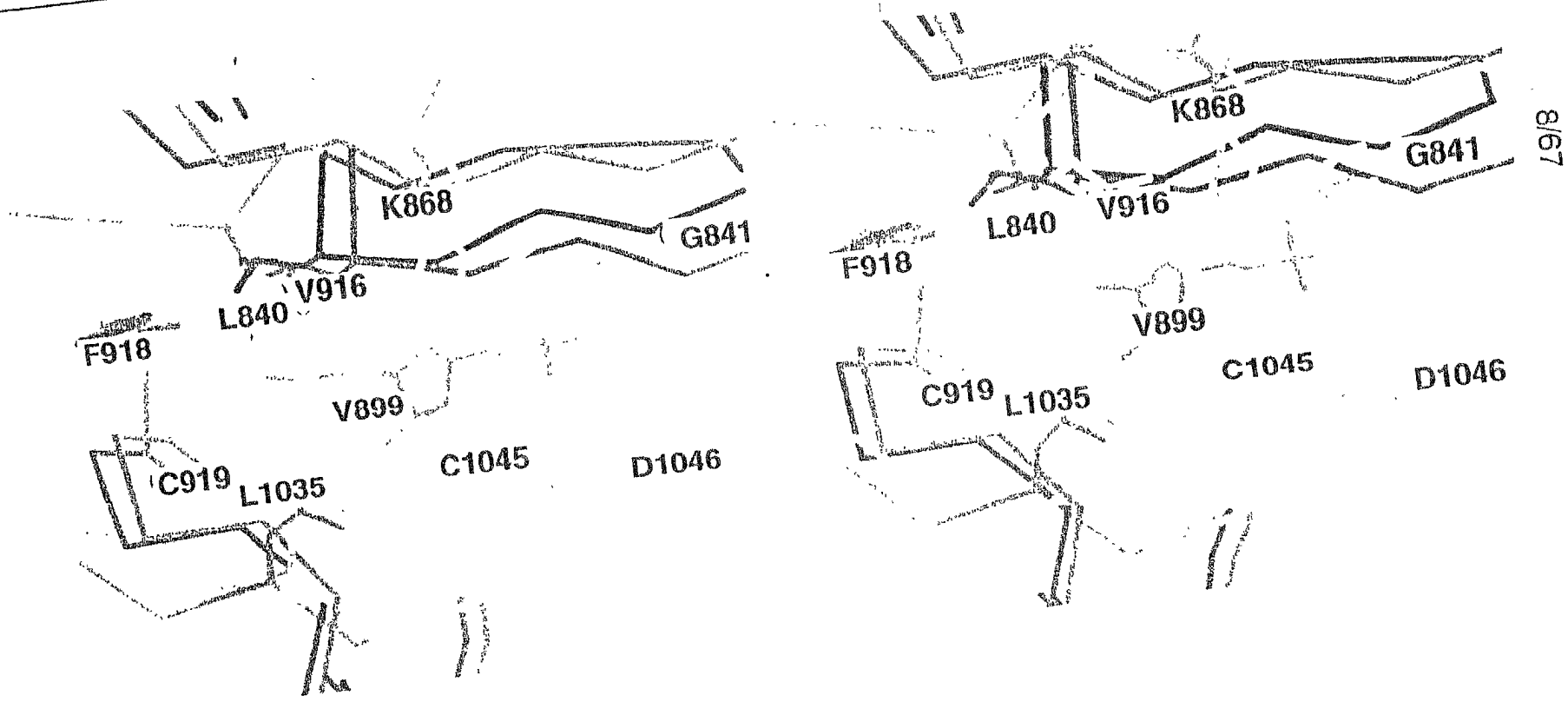

K868
G841
L840
V916
F918
V899
C1045
D1046
C919
L1035
K868
G841
L840
V916
F918
V899
C1045
D1046
C919
L1035

FIG. 5

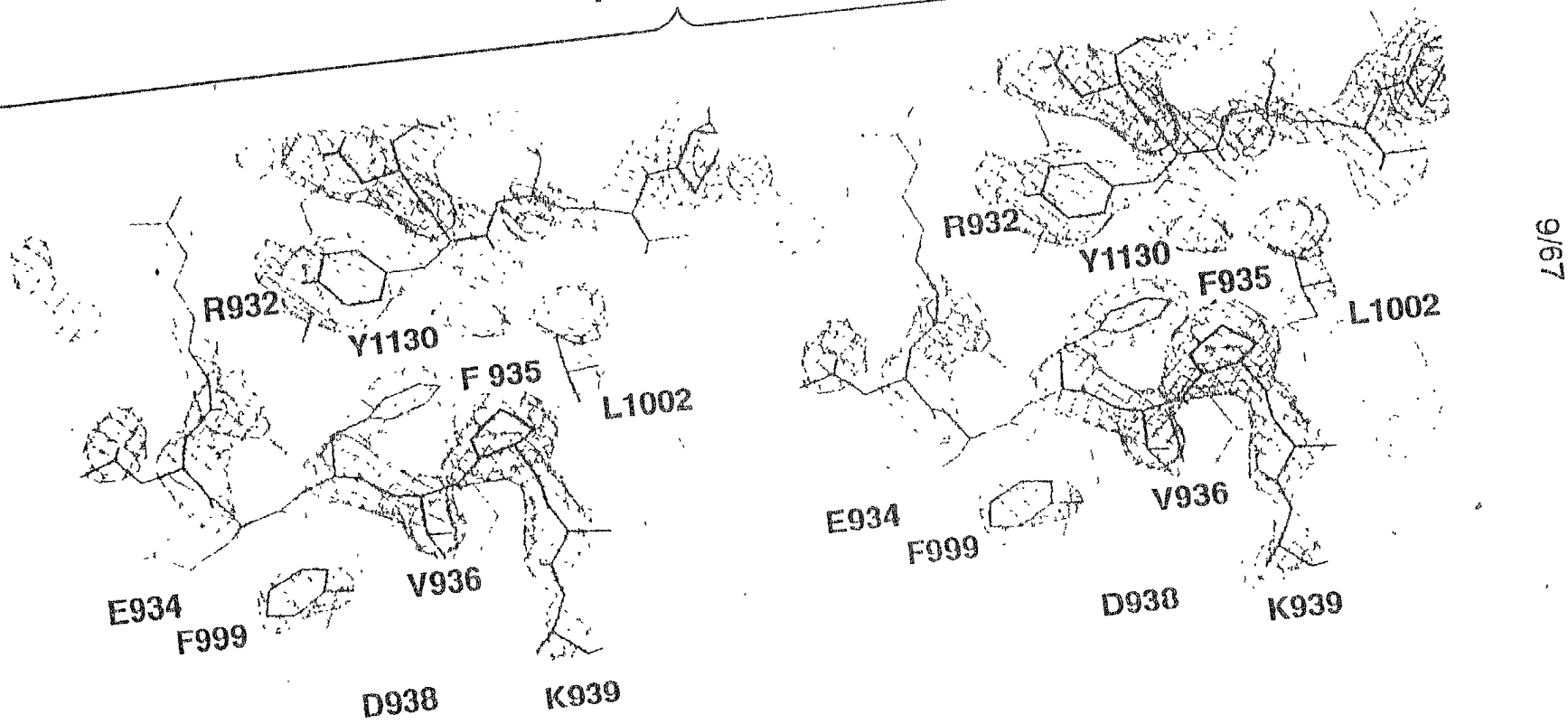

R932
Y1130
F 935
L1002
E934
F999
V936
D938
K939
R932
Y1130
F935
L1002
E934
F999
V936
D938
K939

FIG. 6

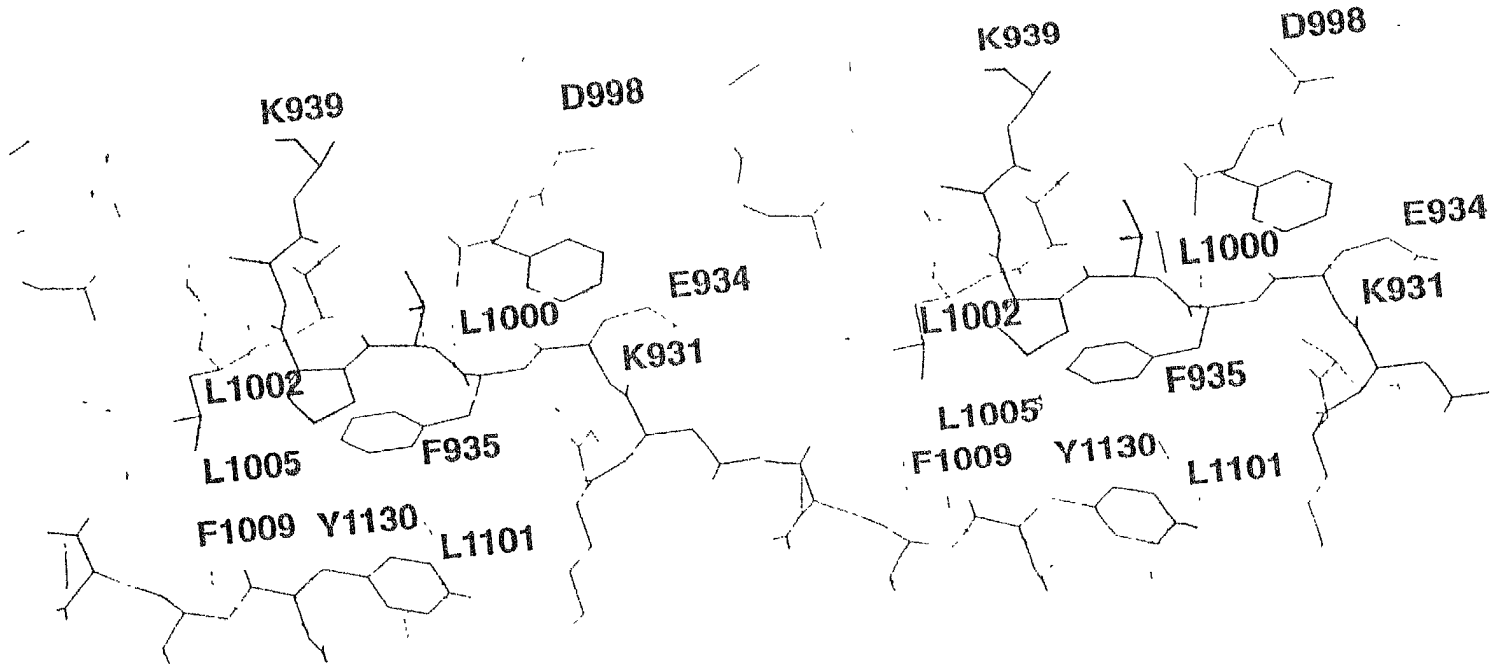

K939
D998
E934
L1000
K931
L1002
F935
L1005
F1009
Y1130
L1101
K939
D998
E934
L1000
K931
L1002
F935
L1005
F1009
Y1130
L1101

FIG. 7(1)

```
ATOM    1  CB  LEU  820      49.908  45.905  17.938  1.00 48.95
ATOM    2  CG  LEU  820      50.568  45.069  16.833  1.00 43.57
ATOM    3  CD1 LEU  820      50.004  45.358  15.456  1.00 43.59
ATOM    4  CD2 LEU  820      52.066  45.345  16.886  1.00 47.45
ATOM    5  C   LEU  820      49.216  48.321  17.530  1.00 48.14
ATOM    6  O   LEU  820      48.196  48.587  18.187  1.00 52.58
ATOM    9  N   LEU  820      50.481  47.725  19.581  1.00 53.68
ATOM   11  CA  LEU  820      50.302  47.387  18.117  1.00 50.63
ATOM   12  N   PRO  821      49.435  48.842  16.306  1.00 41.32
ATOM   13  CD  PRO  821      50.680  48.870  15.520  1.00 45.54
ATOM   14  CA  PRO  821      48.465  49.733  15.700  1.00 31.06
ATOM   15  CB  PRO  821      49.067  49.985  14.352  1.00 28.89
ATOM   16  CG  PRO  821      50.509  50.148  14.734  1.00 43.44
ATOM   17  C   PRO  821      47.123  49.165  15.569  1.00 26.14
ATOM   18  O   PRO  821      46.948  47.970  15.374  1.00 26.03
ATOM   19  N   TYR  822      46.154  50.024  15.776  1.00 16.25
ATOM   21  CA  TYR  822      44.799  49.643  15.582  1.00 18.88
ATOM   22  CB  TYR  822      44.061  49.519  16.916  1.00 17.42
ATOM   23  CG  TYR  822      42.584  49.316  16.728  1.00 18.46
ATOM   24  CD1 TYR  822      41.674  50.341  17.047  1.00 21.12
ATOM   25  CE1 TYR  822      40.314  50.206  16.812  1.00 13.80
ATOM   26  CD2 TYR  822      42.086  48.144  16.175  1.00 12.24
ATOM   27  CE2 TYR  822      40.714  47.997  15.951  1.00 13.44
ATOM   28  CZ  TYR  822      39.838  49.028  16.268  1.00 14.38
ATOM   29  OH  TYR  822      38.480  48.887  16.073  1.00 19.73
ATOM   31  C   TYR  822      44.253  50.760  14.705  1.00 16.93
ATOM   32  O   TYR  822      44.172  51.904  15.112  1.00 20.70
ATOM   33  N   ASP  823      44.054  50.456  13.439  1.00 15.20
ATOM   35  CA  ASP  823      43.509  51.418  12.506  1.00 13.55
ATOM   36  CB  ASP  823      43.856  50.945  11.091  1.00 11.37
ATOM   37  CG  ASP  823      43.456  51.933  10.016  1.00 16.45
ATOM   38  OD1 ASP  823      42.546  52.754  10.258  1.00 21.86
ATOM   39  OD2 ASP  823      44.022  51.854   8.904  1.00 12.33
ATOM   40  C   ASP  823      41.983  51.489  12.738  1.00 14.14
ATOM   41  O   ASP  823      41.224  50.722  12.172  1.00 19.73
ATOM   42  N   ALA  824      41.539  52.415  13.572  1.00 11.88
ATOM   44  CA  ALA  824      40.126  52.554  13.876  1.00 14.80
ATOM   45  CB  ALA  824      39.928  53.610  14.973  1.00 12.02
ATOM   46  C   ALA  824      39.259  52.893  12.658  1.00 19.09
ATOM   47  O   ALA  824      38.062  52.610  12.641  1.00 23.54
```

FIG. 7(2)

ATOM	48	N	SER	825	39.857	53.496	11.635	1.00	18.25
ATOM	50	CA	SER	825	39.118	53.867	10.450	1.00	12.65
ATOM	51	CB	SER	825	40.023	54.678	9.543	1.00	11.88
ATOM	52	OG	SER	825	39.315	55.003	8.370	1.00	20.94
ATOM	54	C	SER	825	38.669	52.594	9.746	1.00	12.30
ATOM	55	O	SER	825	37.543	52.461	9.317	1.00	14.94
ATOM	56	N	LYS	826	39.557	51.633	9.642	1.00	14.98
ATOM	58	CA	LYS	826	39.188	50.396	8.988	1.00	22.45
ATOM	59	CB	LYS	826	40.445	49.660	8.483	1.00	16.46
ATOM	60	CG	LYS	826	40.091	48.370	7.820	1.00	23.00
ATOM	61	CD	LYS	826	40.962	48.071	6.657	1.00	26.19
ATOM	62	CE	LYS	826	42.391	48.041	7.092	1.00	35.70
ATOM	63	NZ	LYS	826	43.272	48.003	5.891	1.00	40.17
ATOM	67	C	LYS	826	38.324	49.437	9.839	1.00	21.47
ATOM	68	O	LYS	826	37.363	48.850	9.336	1.00	22.56
ATOM	69	N	TRP	827	38.589	49.376	11.144	1.00	20.96
ATOM	71	CA	TRP	827	37.917	48.406	11.996	1.00	16.87
ATOM	72	CB	TRP	827	38.974	47.620	12.785	1.00	18.53
ATOM	73	CG	TRP	827	39.942	46.898	11.910	1.00	12.95
ATOM	74	CD2	TRP	827	39.643	45.810	11.029	1.00	9.73
ATOM	75	CE2	TRP	827	40.795	45.562	10.274	1.00	9.36
ATOM	76	CE3	TRP	827	38.505	45.038	10.801	1.00	11.54
ATOM	77	CD1	TRP	827	41.233	47.231	11.684	1.00	12.87
ATOM	78	NE1	TRP	827	41.753	46.440	10.689	1.00	10.49
ATOM	80	CZ2	TRP	827	40.848	44.565	9.299	1.00	12.36
ATOM	81	CZ3	TRP	827	38.556	44.053	9.826	1.00	10.55
ATOM	82	CH2	TRP	827	39.718	43.830	9.087	1.00	11.88
ATOM	83	C	TRP	827	36.830	48.795	12.953	1.00	17.75
ATOM	84	O	TRP	827	35.985	47.951	13.271	1.00	15.08
ATOM	85	N	GLU	828	36.855	50.043	13.416	1.00	16.92
ATOM	87	CA	GLU	828	35.908	50.518	14.413	1.00	19.52
ATOM	88	CB	GLU	828	36.289	51.920	14.885	1.00	17.10
ATOM	89	CG	GLU	828	35.581	52.363	16.148	1.00	12.70
ATOM	90	CD	GLU	828	36.106	51.707	17.400	1.00	21.57
ATOM	91	OE1	GLU	828	37.219	51.118	17.386	1.00	21.15
ATOM	92	OE2	GLU	828	35.402	51.819	18.426	1.00	22.43
ATOM	93	C	GLU	828	34.494	50.510	13.910	1.00	20.94
ATOM	94	O	GLU	828	34.245	51.024	12.818	1.00	26.92
ATOM	95	N	PHE	829	33.569	49.990	14.734	1.00	21.12
ATOM	97	CA	PHE	829	32.138	49.880	14.391	1.00	17.93
ATOM	98	CB	PHE	829	31.791	48.400	14.160	1.00	16.42
ATOM	99	CG	PHE	829	30.384	48.164	13.669	1.00	20.17

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FIG. 7(3)

```
ATOM   100  CD1 PHE  829      30.020  48.484  12.363  1.00 21.31
ATOM   101  CD2 PHE  829      29.415  47.612  14.516  1.00 23.04
ATOM   102  CE1 PHE  829      28.712  48.254  11.921  1.00 18.76
ATOM   103  CE2 PHE  829      28.093  47.375  14.071  1.00 15.20
ATOM   104  CZ  PHE  829      27.750  47.692  12.792  1.00 17.17
ATOM   105  C   PHE  829      31.310  50.495  15.533  1.00 14.65
ATOM   106  O   PHE  829      31.574  50.211  16.686  1.00 16.15
ATOM   107  N   PRO  830      30.270  51.298  15.224  1.00 13.29
ATOM   108  CD  PRO  830      29.707  51.633  13.901  1.00 11.63
ATOM   109  CA  PRO  830      29.481  51.918  16.292  1.00 14.76
ATOM   110  CB  PRO  830      28.636  52.948  15.565  1.00 13.82
ATOM   111  CG  PRO  830      28.414  52.364  14.252  1.00 14.42
ATOM   112  C   PRO  830      28.629  51.005  17.098  1.00 19.79
ATOM   113  O   PRO  830      27.750  50.339  16.562  1.00 26.60
ATOM   114  N   ARG  831      28.830  51.060  18.410  1.00 18.39
ATOM   116  CA  ARG  831      28.085  50.246  19.335  1.00 14.56
ATOM   117  CB  ARG  831      28.469  50.580  20.743  1.00 11.53
ATOM   118  CG  ARG  831      29.808  50.050  21.092  1.00 12.65
ATOM   119  CD  ARG  831      30.117  50.265  22.554  1.00 12.46
ATOM   120  NE  ARG  831      31.261  51.148  22.584  1.00 20.55
ATOM   122  CZ  ARG  831      32.469  50.756  22.885  1.00 12.04
ATOM   123  NH1 ARG  831      32.688  49.518  23.234  1.00 23.80
ATOM   126  NH2 ARG  831      33.467  51.501  22.526  1.00 23.84
ATOM   129  C   ARG  831      26.625  50.415  19.174  1.00 18.55
ATOM   130  O   ARG  831      25.852  49.561  19.607  1.00 25.61
ATOM   131  N   ASP  832      26.221  51.517  18.552  1.00 25.32
ATOM   133  CA  ASP  832      24.794  51.734  18.354  1.00 29.47
ATOM   134  CB  ASP  832      24.393  53.230  18.408  1.00 34.15
ATOM   135  CG  ASP  832      24.817  54.036  17.174  1.00 33.50
ATOM   136  OD1 ASP  832      25.519  53.528  16.280  1.00 34.09
ATOM   137  OD2 ASP  832      24.422  55.216  17.110  1.00 41.48
ATOM   138  C   ASP  832      24.230  51.000  17.139  1.00 27.13
ATOM   139  O   ASP  832      23.023  50.905  16.991  1.00 28.08
ATOM   140  N   ARG  833      25.104  50.466  16.290  1.00 24.18
ATOM   142  CA  ARG  833      24.684  49.695  15.134  1.00 19.93
ATOM   143  CB  ARG  833      25.661  49.902  14.011  1.00 25.94
ATOM   144  CG  ARG  833      25.313  51.073  13.158  1.00 38.97
ATOM   145  CD  ARG  833      25.929  50.901  11.766  1.00 53.19
ATOM   146  NE  ARG  833      25.525  51.930  10.807  1.00 63.47
ATOM   148  CZ  ARG  833      25.419  53.229  11.087  1.00 70.42
ATOM   149  NH1 ARG  833      25.040  54.080  10.139  1.00 74.08
ATOM   152  NH2 ARG  833      25.695  53.690  12.306  1.00 72.08
ATOM   155  C   ARG  833      24.656  48.218  15.498  1.00 18.62
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FIG. 7(4)

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ATOM   156  O   ARG  833      24.289  47.370  14.690  1.00 18.27
ATOM   157  N   LEU  834      25.013  47.943  16.747  1.00 18.35
ATOM   159  CA  LEU  834      25.089  46.600  17.329  1.00 22.59
ATOM   160  CB  LEU  834      26.488  46.398  17.946  1.00 25.91
ATOM   161  CG  LEU  834      27.073  45.003  18.139  1.00 24.64
ATOM   162  CD1 LEU  834      27.185  44.327  16.805  1.00 21.77
ATOM   163  CD2 LEU  834      28.428  45.085  18.785  1.00 17.43
ATOM   164  C   LEU  834      23.988  46.326  18.387  1.00 24.77
ATOM   165  O   LEU  834      23.886  46.973  19.433  1.00 24.03
ATOM   166  N   LYS  835      23.173  45.335  18.087  1.00 28.94
ATOM   168  CA  LYS  835      22.072  44.942  18.940  1.00 32.84
ATOM   169  CB  LYS  835      20.794  44.913  18.081  1.00 31.34
ATOM   170  CG  LYS  835      19.529  44.697  18.839  1.00 36.63
ATOM   171  CD  LYS  835      18.359  44.407  17.940  1.00 39.31
ATOM   172  CE  LYS  835      17.074  44.414  18.783  1.00 48.99
ATOM   173  NZ  LYS  835      17.074  43.448  19.950  1.00 48.86
ATOM   177  C   LYS  835      22.431  43.532  19.420  1.00 31.79
ATOM   178  O   LYS  835      22.408  42.609  18.616  1.00 34.57
ATOM   179  N   LEU  836      22.854  43.395  20.680  1.00 33.17
ATOM   181  CA  LEU  836      23.229  42.101  21.277  1.00 34.01
ATOM   182  CB  LEU  836      23.970  42.292  22.593  1.00 33.96
ATOM   183  CG  LEU  836      25.400  42.796  22.462  1.00 42.50
ATOM   184  CD1 LEU  836      26.082  42.858  23.854  1.00 41.15
ATOM   185  CD2 LEU  836      26.153  41.860  21.501  1.00 40.93
ATOM   186  C   LEU  836      22.053  41.181  21.547  1.00 33.27
ATOM   187  O   LEU  836      21.017  41.631  22.025  1.00 31.15
ATOM   188  N   GLY  837      22.268  39.882  21.330  1.00 36.34
ATOM   190  CA  GLY  837      21.228  38.881  21.536  1.00 34.95
ATOM   191  C   GLY  837      21.603  37.761  22.497  1.00 35.64
ATOM   192  O   GLY  837      22.203  37.980  23.554  1.00 39.23
ATOM   193  N   LYS  838      21.254  36.541  22.126  1.00 35.31
ATOM   195  CA  LYS  838      21.531  35.375  22.962  1.00 37.86
ATOM   196  CB  LYS  838      20.647  34.192  22.539  1.00 41.52
ATOM   197  C   LYS  838      22.991  34.935  22.989  1.00 35.93
ATOM   198  O   LYS  838      23.650  34.851  21.946  1.00 34.37
ATOM   199  N   PRO  839      23.499  34.608  24.187  1.00 33.68
ATOM   200  CD  PRO  839      22.820  34.757  25.486  1.00 34.48
ATOM   201  CA  PRO  839      24.880  34.158  24.363  1.00 37.11
ATOM   202  CB  PRO  839      24.927  33.750  25.833  1.00 37.46
ATOM   203  CG  PRO  839      23.970  34.710  26.472  1.00 37.04
ATOM   204  C   PRO  839      25.148  32.963  23.474  1.00 39.09
ATOM   205  O   PRO  839      24.303  32.085  23.327  1.00 38.13
ATOM   206  N   LEU  840      26.261  33.013  22.767  1.00 43.08
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FIG. 7(5)

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ATOM   208  CA  LEU  840      26.646  31.915  21.917  1.00 47.73
ATOM   209  CB  LEU  840      27.396  32.426  20.692  1.00 41.83
ATOM   210  CG  LEU  840      26.386  32.957  19.697  1.00 39.60
ATOM   211  CD1 LEU  840      27.080  33.697  18.595  1.00 42.69
ATOM   212  CD2 LEU  840      25.582  31.795  19.156  1.00 38.40
ATOM   213  C   LEU  840      27.523  30.987  22.747  1.00 54.84
ATOM   214  O   LEU  840      27.479  29.768  22.577  1.00 59.76
ATOM   215  N   GLY  841      28.248  31.563  23.706  1.00 60.51
ATOM   217  CA  GLY  841      29.140  30.781  24.547  1.00 60.96
ATOM   218  C   GLY  841      29.660  31.544  25.750  1.00 63.95
ATOM   219  O   GLY  841      29.497  32.764  25.857  1.00 64.35
ATOM   220  N   ARG  842      30.279  30.809  26.668  1.00 65.26
ATOM   222  CA  ARG  842      30.823  31.388  27.887  1.00 65.12
ATOM   223  CB  ARG  842      30.027  30.897  29.091  1.00 61.50
ATOM   224  C   ARG  842      32.300  30.995  28.004  1.00 64.23
ATOM   225  O   ARG  842      32.957  30.720  26.986  1.00 68.80
ATOM   226  N   GLY  843      32.822  31.003  29.226  1.00 60.14
ATOM   228  CA  GLY  843      34.206  30.639  29.453  1.00 60.53
ATOM   229  C   GLY  843      34.676  31.165  30.789  1.00 62.56
ATOM   230  O   GLY  843      33.902  31.764  31.535  1.00 61.31
ATOM   231  N   ALA  844      35.925  30.888  31.140  1.00 66.30
ATOM   233  CA  ALA  844      36.450  31.390  32.403  1.00 69.69
ATOM   234  CB  ALA  844      37.655  30.574  32.851  1.00 68.47
ATOM   235  C   ALA  844      36.839  32.855  32.212  1.00 73.15
ATOM   236  O   ALA  844      36.723  33.667  33.144  1.00 75.00
ATOM   237  N   PHE  845      37.251  33.184  30.981  1.00 76.12
ATOM   239  CA  PHE  845      37.699  34.538  30.618  1.00 74.99
ATOM   240  CB  PHE  845      39.135  34.479  30.014  1.00 72.01
ATOM   241  C   PHE  845      36.766  35.353  29.700  1.00 73.81
ATOM   242  O   PHE  845      36.404  36.499  30.020  1.00 76.82
ATOM   243  N   GLY  846      36.368  34.767  28.576  1.00 68.48
ATOM   245  CA  GLY  846      35.527  35.495  27.645  1.00 61.76
ATOM   246  C   GLY  846      34.102  35.023  27.606  1.00 57.98
ATOM   247  O   GLY  846      33.658  34.305  28.491  1.00 59.43
ATOM   248  N   GLN  847      33.400  35.413  26.553  1.00 55.08
ATOM   250  CA  GLN  847      32.006  35.050  26.354  1.00 52.26
ATOM   251  CB  GLN  847      31.160  35.668  27.449  1.00 55.14
ATOM   252  CG  GLN  847      29.706  35.703  27.075  1.00 61.40
ATOM   253  CD  GLN  847      28.951  36.735  27.844  1.00 65.75
ATOM   254  OE1 GLN  847      27.772  36.543  28.150  1.00 69.74
ATOM   255  NE2 GLN  847      29.614  37.852  28.166  1.00 68.83
ATOM   258  C   GLN  847      31.508  35.573  25.001  1.00 47.29
ATOM   259  O   GLN  847      31.637  36.764  24.713  1.00 52.89
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FIG. 7(6)

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ATOM   260  N   VAL  848      30.912  34.707  24.195  1.00 38.17
ATOM   262  CA  VAL  848      30.418  35.122  22.898  1.00 30.28
ATOM   263  CB  VAL  848      30.792  34.137  21.833  1.00 28.01
ATOM   264  CG1 VAL  848      30.542  34.744  20.442  1.00 23.32
ATOM   265  CG2 VAL  848      32.239  33.759  22.016  1.00 22.18
ATOM   266  C   VAL  848      28.920  35.262  22.939  1.00 31.80
ATOM   267  O   VAL  848      28.221  34.525  23.625  1.00 32.87
ATOM   268  N   ILE  849      28.410  36.196  22.166  1.00 29.87
ATOM   270  CA  ILE  849      26.990  36.436  22.159  1.00 25.35
ATOM   271  CB  ILE  849      26.602  37.448  23.328  1.00 31.46
ATOM   272  CG2 ILE  849      27.766  38.373  23.732  1.00 32.09
ATOM   273  CG1 ILE  849      25.353  38.244  23.003  1.00 31.00
ATOM   274  CD1 ILE  849      24.895  39.035  24.199  1.00 37.56
ATOM   275  C   ILE  849      26.493  36.851  20.798  1.00 23.02
ATOM   276  O   ILE  849      27.167  37.540  20.070  1.00 27.56
ATOM   277  N   GLU  850      25.376  36.294  20.390  1.00 25.56
ATOM   279  CA  GLU  850      24.802  36.626  19.107  1.00 26.63
ATOM   280  CB  GLU  850      23.577  35.785  18.894  1.00 27.45
ATOM   281  CG  GLU  850      23.414  35.361  17.487  1.00 34.57
ATOM   282  CD  GLU  850      22.155  34.590  17.293  1.00 34.46
ATOM   283  OE1 GLU  850      21.602  34.655  16.184  1.00 42.38
ATOM   284  OE2 GLU  850      21.710  33.924  18.248  1.00 40.93
ATOM   285  C   GLU  850      24.422  38.111  19.028  1.00 27.83
ATOM   286  O   GLU  850      24.240  38.755  20.047  1.00 25.02
ATOM   287  N   ALA  851      24.291  38.640  17.814  1.00 29.11
ATOM   289  CA  ALA  851      23.958  40.043  17.621  1.00 27.32
ATOM   290  CB  ALA  851      25.080  40.922  18.170  1.00 18.65
ATOM   291  C   ALA  851      23.731  40.387  16.160  1.00 26.61
ATOM   292  O   ALA  851      24.328  39.785  15.283  1.00 26.99
ATOM   293  N   ASP  852      22.836  41.343  15.917  1.00 30.82
ATOM   295  CA  ASP  852      22.538  41.862  14.566  1.00 31.76
ATOM   296  CB  ASP  852      21.050  42.186  14.386  1.00 39.33
ATOM   297  CG  ASP  852      20.222  40.993  13.993  1.00 47.41
ATOM   298  OD1 ASP  852      19.687  40.330  14.906  1.00 54.12
ATOM   299  OD2 ASP  852      20.066  40.754  12.775  1.00 53.02
ATOM   300  C   ASP  852      23.265  43.204  14.506  1.00 25.97
ATOM   301  O   ASP  852      23.096  44.021  15.416  1.00 21.64
ATOM   302  N   ALA  853      24.099  43.411  13.495  1.00 20.18
ATOM   304  CA  ALA  853      24.818  44.672  13.342  1.00 23.55
ATOM   305  CB  ALA  853      26.305  44.440  13.292  1.00 23.32
ATOM   306  C   ALA  853      24.311  45.222  12.026  1.00 23.89
ATOM   307  O   ALA  853      24.079  44.439  11.108  1.00 26.15
ATOM   308  N   PHE  854      24.044  46.526  11.936  1.00 22.87
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FIG. 7(7)

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ATOM   310  CA  PHE  854      23.529  47.059  10.680  1.00 16.46
ATOM   311  CB  PHE  854      22.487  48.135  10.901  1.00 23.71
ATOM   312  CG  PHE  854      22.020  48.758   9.643  1.00 27.62
ATOM   313  CD1 PHE  854      22.476  50.011   9.266  1.00 28.26
ATOM   314  CD2 PHE  854      21.205  48.052   8.771  1.00 31.56
ATOM   315  CE1 PHE  854      22.136  50.549   8.025  1.00 30.16
ATOM   316  CE2 PHE  854      20.856  48.592   7.512  1.00 34.04
ATOM   317  CZ  PHE  854      21.328  49.838   7.145  1.00 28.32
ATOM   318  C   PHE  854      24.618  47.569   9.794  1.00 14.10
ATOM   319  O   PHE  854      25.493  48.299  10.209  1.00 17.34
ATOM   320  N   GLY  855      24.556  47.163   8.553  1.00 17.45
ATOM   322  CA  GLY  855      25.559  47.571   7.604  1.00 18.50
ATOM   323  C   GLY  855      26.988  47.318   8.020  1.00 22.65
ATOM   324  O   GLY  855      27.806  48.193   7.777  1.00 26.82
ATOM   325  N   ILE  856      27.332  46.150   8.580  1.00 23.51
ATOM   327  CA  ILE  856      28.740  45.886   8.983  1.00 24.11
ATOM   328  CB  ILE  856      28.868  44.692   9.980  1.00 27.72
ATOM   329  CG2 ILE  856      28.535  43.370   9.259  1.00 29.88
ATOM   330  CG1 ILE  856      30.282  44.663  10.608  1.00 23.26
ATOM   331  CD1 ILE  856      30.371  44.079  12.034  1.00 21.70
ATOM   332  C   ILE  856      29.704  45.665   7.805  1.00 24.83
ATOM   333  O   ILE  856      30.918  45.721   7.950  1.00 28.37
ATOM   334  N   ASP  857      29.145  45.460   6.626  1.00 27.69
ATOM   336  CA  ASP  857      29.926  45.248   5.420  1.00 31.23
ATOM   337  CB  ASP  857      29.566  43.891   4.838  1.00 34.80
ATOM   338  CG  ASP  857      28.074  43.658   4.811  1.00 40.03
ATOM   339  OD1 ASP  857      27.328  44.597   4.448  1.00 43.33
ATOM   340  OD2 ASP  857      27.641  42.549   5.200  1.00 46.87
ATOM   341  C   ASP  857      29.654  46.323   4.370  1.00 32.81
ATOM   342  O   ASP  857      29.721  46.040   3.183  1.00 38.59
ATOM   343  N   LYS  858      29.299  47.529   4.813  1.00 34.74
ATOM   345  CA  LYS  858      28.987  48.690   3.946  1.00 34.64
ATOM   346  CB  LYS  858      30.061  48.947   2.889  1.00 31.38
ATOM   347  CG  LYS  858      31.462  48.964   3.418  1.00 34.36
ATOM   348  CD  LYS  858      31.605  49.890   4.603  1.00 39.41
ATOM   349  CE  LYS  858      33.005  49.791   5.228  1.00 39.87
ATOM   350  NZ  LYS  858      34.059  50.089   4.218  1.00 39.89
ATOM   354  C   LYS  858      27.629  48.709   3.254  1.00 32.27
ATOM   355  O   LYS  858      27.249  49.737   2.724  1.00 35.02
ATOM   356  N   THR  859      26.891  47.607   3.258  1.00 32.20
ATOM   358  CA  THR  859      25.597  47.610   2.600  1.00 30.11
ATOM   359  CB  THR  859      25.355  46.332   1.785  1.00 30.38
ATOM   360  OG1 THR  859      25.365  45.187   2.641  1.00 32.29
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FIG. 7(8)

```
ATOM   362 CG2 THR  859      26.437  46.179   0.757  1.00 32.22
ATOM   363 C   THR  859      24.450  47.839   3.546  1.00 28.71
ATOM   364 O   THR  859      24.577  47.647   4.750  1.00 30.55
ATOM   365 N   ALA  860      23.303  48.201   2.989  1.00 30.07
ATOM   367 CA  ALA  860      22.123  48.474   3.784  1.00 28.01
ATOM   368 CB  ALA  860      21.141  49.253   2.928  1.00 23.78
ATOM   369 C   ALA  860      21.461  47.222   4.394  1.00 28.00
ATOM   370 O   ALA  860      20.251  47.100   4.373  1.00 31.77
ATOM   371 N   THR  861      22.228  46.325   5.008  1.00 29.99
ATOM   373 CA  THR  861      21.663  45.078   5.577  1.00 27.77
ATOM   374 CB  THR  861      22.186  43.857   4.808  1.00 20.97
ATOM   375 OG1 THR  861      23.614  43.926   4.687  1.00 27.23
ATOM   377 CG2 THR  861      21.608  43.794   3.449  1.00 29.39
ATOM   378 C   THR  861      21.986  44.790   7.055  1.00 31.89
ATOM   379 O   THR  861      23.095  45.077   7.532  1.00 34.73
ATOM   380 N   CYS  862      21.037  44.183   7.770  1.00 34.09
ATOM   382 CA  CYS  862      21.250  43.805   9.178  1.00 31.63
ATOM   383 CB  CYS  862      19.922  43.756   9.943  1.00 27.50
ATOM   384 SG  CYS  862      19.863  44.908  11.327  1.00 41.79
ATOM   385 C   CYS  862      21.876  42.424   9.146  1.00 25.51
ATOM   386 O   CYS  862      21.241  41.492   8.700  1.00 30.38
ATOM   387 N   ARG  863      23.136  42.307   9.541  1.00 27.68
ATOM   389 CA  ARG  863      23.839  41.025   9.532  1.00 28.29
ATOM   390 CB  ARG  863      25.211  41.210   8.882  1.00 36.18
ATOM   391 CG  ARG  863      25.775  39.945   8.275  1.00 48.71
ATOM   392 CD  ARG  863      27.282  40.034   7.943  1.00 58.46
ATOM   393 NE  ARG  863      27.824  38.721   7.550  1.00 65.04
ATOM   395 CZ  ARG  863      29.112  38.452   7.330  1.00 65.66
ATOM   396 NH1 ARG  863      29.482  37.219   6.985  1.00 67.60
ATOM   399 NH2 ARG  863      30.030  39.409   7.421  1.00 66.49
ATOM   402 C   ARG  863      24.006  40.409  10.943  1.00 28.34
ATOM   403 O   ARG  863      24.337  41.125  11.904  1.00 24.64
ATOM   404 N   THR  864      23.735  39.100  11.078  1.00 23.23
ATOM   406 CA  THR  864      23.900  38.426  12.364  1.00 18.91
ATOM   407 CB  THR  864      23.062  37.099  12.489  1.00 19.40
ATOM   408 OG1 THR  864      21.672  37.435  12.547  1.00 24.20
ATOM   410 CG2 THR  864      23.371  36.351  13.793  1.00  8.83
ATOM   411 C   THR  864      25.385  38.148  12.462  1.00 20.93
ATOM   412 O   THR  864      26.001  37.736  11.468  1.00 20.14
ATOM   413 N   VAL  865      25.962  38.442  13.634  1.00 16.03
ATOM   415 CA  VAL  865      27.381  38.254  13.897  1.00 16.69
ATOM   416 CB  VAL  865      28.175  39.620  13.906  1.00 17.70
ATOM   417 CG1 VAL  865      28.107  40.299  12.539  1.00 21.22
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FIG. 7(9)

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ATOM   418  CG2 VAL  865      27.625  40.554  14.979  1.00 20.92
ATOM   419  C   VAL  865      27.533  37.660  15.276  1.00 15.90
ATOM   420  O   VAL  865      26.552  37.554  15.995  1.00 16.43
ATOM   421  N   ALA  866      28.775  37.295  15.612  1.00 16.37
ATOM   423  CA  ALA  866      29.210  36.753  16.910  1.00 18.08
ATOM   424  CB  ALA  866      30.022  35.490  16.691  1.00  7.41
ATOM   425  C   ALA  866      30.117  37.834  17.588  1.00 23.87
ATOM   426  O   ALA  866      31.121  38.261  16.998  1.00 24.17
ATOM   427  N   VAL  867      29.790  38.235  18.827  1.00 26.69
ATOM   429  CA  VAL  867      30.534  39.268  19.554  1.00 20.37
ATOM   430  CB  VAL  867      29.592  40.365  20.088  1.00 17.71
ATOM   431  CG1 VAL  867      30.361  41.586  20.519  1.00  9.32
ATOM   432  CG2 VAL  867      28.635  40.753  19.027  1.00 14.57
ATOM   433  C   VAL  867      31.320  38.748  20.728  1.00 21.67
ATOM   434  O   VAL  867      30.784  38.085  21.606  1.00 23.57
ATOM   435  N   LYS  868      32.616  38.982  20.694  1.00 21.65
ATOM   437  CA  LYS  868      33.471  38.593  21.782  1.00 27.02
ATOM   438  CB  LYS  868      34.860  38.169  21.289  1.00 29.71
ATOM   439  CG  LYS  868      34.842  36.963  20.405  1.00 37.08
ATOM   440  CD  LYS  868      36.151  36.810  19.666  1.00 44.81
ATOM   441  CE  LYS  868      36.183  35.512  18.868  1.00 45.52
ATOM   442  NZ  LYS  868      37.548  35.298  18.274  1.00 47.28
ATOM   446  C   LYS  868      33.585  39.842  22.647  1.00 26.11
ATOM   447  O   LYS  868      33.962  40.914  22.188  1.00 24.72
ATOM   448  N   MET  869      33.184  39.721  23.888  1.00 29.77
ATOM   450  CA  MET  869      33.299  40.821  24.803  1.00 32.95
ATOM   451  CB  MET  869      31.958  41.491  24.996  1.00 30.57
ATOM   452  CG  MET  869      30.900  40.542  25.463  1.00 32.29
ATOM   453  SD  MET  869      29.348  41.157  24.961  1.00 42.68
ATOM   454  CE  MET  869      29.251  42.663  25.919  1.00 35.32
ATOM   455  C   MET  869      33.778  40.205  26.095  1.00 40.29
ATOM   456  O   MET  869      33.921  38.967  26.216  1.00 35.26
ATOM   457  N   LEU  870      34.079  41.066  27.051  1.00 46.88
ATOM   459  CA  LEU  870      34.521  40.576  28.337  1.00 51.36
ATOM   460  CB  LEU  870      35.544  41.549  28.937  1.00 48.55
ATOM   461  CG  LEU  870      36.862  41.677  28.180  1.00 44.32
ATOM   462  CD1 LEU  870      37.734  42.739  28.855  1.00 36.89
ATOM   463  CD2 LEU  870      37.535  40.306  28.149  1.00 41.04
ATOM   464  C   LEU  870      33.344  40.306  29.311  1.00 53.63
ATOM   465  O   LEU  870      32.163  40.615  29.037  1.00 52.68
ATOM   466  N   LYS  871      33.675  39.644  30.412  1.00 56.89
ATOM   468  CA  LYS  871      32.695  39.346  31.426  1.00 58.53
ATOM   469  CB  LYS  871      33.083  38.077  32.169  1.00 59.89
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FIG. 7(10)

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ATOM   470  CG  LYS  871      31.903  37.220  32.546  1.00 63.81
ATOM   471  CD  LYS  871      31.912  35.965  31.719  1.00 65.43
ATOM   472  CE  LYS  871      33.268  35.318  31.853  1.00 70.59
ATOM   473  NZ  LYS  871      33.318  34.051  31.135  1.00 76.57
ATOM   477  C   LYS  871      32.649  40.518  32.404  1.00 59.44
ATOM   478  O   LYS  871      33.582  41.342  32.464  1.00 56.75
ATOM   479  N   GLU  872      31.566  40.571  33.177  1.00 61.50
ATOM   481  CA  GLU  872      31.357  41.618  34.177  1.00 64.12
ATOM   482  CB  GLU  872      29.928  41.539  34.739  1.00 66.85
ATOM   483  CG  GLU  872      28.846  41.903  33.729  1.00 71.27
ATOM   484  CD  GLU  872      29.060  41.218  32.387  1.00 74.41
ATOM   485  OE1 GLU  872      28.900  39.980  32.326  1.00 76.27
ATOM   486  OE2 GLU  872      29.443  41.903  31.411  1.00 74.20
ATOM   487  C   GLU  872      32.387  41.424  35.288  1.00 60.87
ATOM   488  O   GLU  872      32.331  40.441  36.026  1.00 61.34
ATOM   489  N   GLY  873      33.368  42.319  35.335  1.00 57.40
ATOM   491  CA  GLY  873      34.408  42.223  36.337  1.00 53.93
ATOM   492  C   GLY  873      35.703  41.641  35.803  1.00 52.30.
ATOM   493  O   GLY  873      36.518  41.103  36.563  1.00 51.95
ATOM   494  N   ALA  874      35.881  41.721  34.491  1.00 51.13
ATOM   496  CA  ALA  874      37.090  41.217  33.862  1.00 51.21
ATOM   497  CB  ALA  874      36.875  41.049  32.335  1.00 48.57
ATOM   498  C   ALA  874      38.270  42.172  34.199  1.00 50.40
ATOM   499  O   ALA  874      38.101  43.388  34.369  1.00 48.57
ATOM   500  N   THR  875      39.465  41.609  34.245  1.00 48.33
ATOM   502  CA  THR  875      40.657  42.334  34.617  1.00 51.59
ATOM   503  CB  THR  875      41.572  41.428  35.447  1.00 54.42
ATOM   504  OG1 THR  875      42.677  42.184  35.937  1.00 60.69
ATOM   506  CG2 THR  875      42.107  40.280  34.593  1.00 60.52
ATOM   507  C   THR  875      41.455  42.830  33.448  1.00 51.15
ATOM   508  O   THR  875      41.395  42.263  32.372  1.00 52.26
ATOM   509  N   HIS  876      42.343  43.770  33.733  1.00 53.93
ATOM   511  CA  HIS  876      43.215  44.392  32.737  1.00 55.68
ATOM   512  CB  HIS  876      44.170  45.383  33.419  1.00 54.06
ATOM   513  CG  HIS  876      45.609  44.980  33.361  1.00 56.52
ATOM   514  CD2 HIS  876      46.595  45.314  32.487  1.00 56.83
ATOM   515  ND1 HIS  876      46.191  44.149  34.297  1.00 60.22
ATOM   517  CE1 HIS  876      47.472  43.992  34.009  1.00 62.12
ATOM   518  NE2 HIS  876      47.739  44.689  32.916  1.00 59.66
ATOM   520  C   HIS  876      44.003  43.385  31.898  1.00 54.72
ATOM   521  O   HIS  876      44.510  43.712  30.810  1.00 54.08
ATOM   522  N   SER  877      44.167  42.189  32.434  1.00 52.07
ATOM   524  CA  SER  877      44.872  41.160  31.704  1.00 53.73
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FIG. 7(11)

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ATOM   525  CB  SER  877      45.622  40.256  32.669  1.00 57.58
ATOM   526  OG  SER  877      46.559  41.054  33.379  1.00 63.62
ATOM   528  C   SER  877      43.880  40.410  30.810  1.00 51.29
ATOM   529  O   SER  877      44.227  39.962  29.715  1.00 50.11
ATOM   530  N   GLU  878      42.629  40.320  31.246  1.00 47.72
ATOM   532  CA  GLU  878      41.620  39.696  30.410  1.00 45.39
ATOM   533  CB  GLU  878      40.335  39.483  31.201  1.00 48.19
ATOM   534  CG  GLU  878      40.383  38.191  32.013  1.00 60.86
ATOM   535  CD  GLU  878      39.304  38.086  33.092  1.00 68.27
ATOM   536  OE1 GLU  878      38.448  37.162  33.027  1.00 70.85
ATOM   537  OE2 GLU  878      39.336  38.911  34.029  1.00 67.92
ATOM   538  C   GLU  878      41.448  40.702  29.277  1.00 40.09
ATOM   539  O   GLU  878      41.536  40.365  28.104  1.00 38.92
ATOM   540  N   HIS  879      41.393  41.966  29.659  1.00 34.60
ATOM   542  CA  HIS  879      41.252  43.072  28.732  1.00 36.68
ATOM   543  CB  HIS  879      41.070  44.392  29.505  1.00 44.03
ATOM   544  CG  HIS  879      40.637  45.547  28.652  1.00 43.54
ATOM   545  CD2 HIS  879      39.403  46.025  28.364  1.00 40.08
ATOM   546  ND1 HIS  879      41.529  46.307  27.917  1.00 39.08
ATOM   548  CE1 HIS  879      40.860  47.192  27.202  1.00 40.82
ATOM   549  NE2 HIS  879      39.572  47.045  27.452  1.00 49.01
ATOM   551  C   HIS  879      42.455  43.172  27.797  1.00 34.17
ATOM   552  O   HIS  879      42.293  43.494  26.626  1.00 33.65
ATOM   553  N   ARG  880      43.664  42.993  28.319  1.00 33.25
ATOM   555  CA  ARG  880      44.838  43.033  27.470  1.00 29.84
ATOM   556  CB  ARG  880      46.124  42.932  28.299  1.00 36.53
ATOM   557  CG  ARG  880      46.615  41.470  28.452  1.00 50.57
ATOM   558  CD  ARG  880      48.121  41.276  28.649  1.00 56.95
ATOM   559  NE  ARG  880      48.555  41.748  29.960  1.00 63.99
ATOM   561  CZ  ARG  880      49.030  42.967  30.175  1.00 66.67
ATOM   562  NH1 ARG  880      49.391  43.327  31.397  1.00 66.45
ATOM   565  NH2 ARG  880      49.170  43.813  29.157  1.00 66.52
ATOM   568  C   ARG  880      44.741  41.799  26.533  1.00 29.72
ATOM   569  O   ARG  880      45.246  41.808  25.401  1.00 21.81
ATOM   570  N   ALA  881      44.070  40.747  27.006  1.00 28.49
ATOM   572  CA  ALA  881      43.942  39.514  26.227  1.00 31.72
ATOM   573  CB  ALA  881      43.587  38.342  27.142  1.00 31.57
ATOM   574  C   ALA  881      42.978  39.592  25.044  1.00 29.98
ATOM   575  O   ALA  881      43.319  39.154  23.944  1.00 31.95
ATOM   576  N   LEU  882      41.766  40.099  25.273  1.00 27.12
ATOM   578  CA  LEU  882      40.804  40.248  24.193  1.00 27.43
ATOM   579  CB  LEU  882      39.493  40.784  24.728  1.00 23.93
ATOM   580  CG  LEU  882      38.402  40.925  23.662  1.00 25.91
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FIG. 7(12)

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ATOM   581  CD1 LEU  882      38.435  39.722  22.743  1.00 21.91
ATOM   582  CD2 LEU  882      37.013  41.102  24.325  1.00 23.61
ATOM   583  C   LEU  882      41.368  41.230  23.151  1.00 30.62
ATOM   584  O   LEU  882      41.312  40.982  21.945  1.00 27.61
ATOM   585  N   MET  883      41.940  42.325  23.643  1.00 29.74
ATOM   587  CA  MET  883      42.548  43.364  22.808  1.00 30.75
ATOM   588  CB  MET  883      43.001  44.516  23.738  1.00 27.47
ATOM   589  CG  MET  883      43.432  45.828  23.084  1.00 33.64
ATOM   590  SD  MET  883      42.313  46.592  21.882  1.00 33.18
ATOM   591  CE  MET  883      41.031  47.285  22.943  1.00 33.54
ATOM   592  C   MET  883      43.711  42.756  21.965  1.00 29.92
ATOM   593  O   MET  883      43.862  43.022  20.766  1.00 28.38
ATOM   594  N   SER  884      44.501  41.893  22.588  1.00 29.75
ATOM   596  CA  SER  884      45.597  41.231  21.912  1.00 28.29
ATOM   597  CB  SER  884      46.343  40.391  22.923  1.00 32.03
ATOM   598  OG  SER  884      47.220  39.502  22.270  1.00 44.59
ATOM   600  C   SER  884      45.091  40.329  20.778  1.00 29.39
ATOM   601  O   SER  884      45.595  40.359  19.654  1.00 28.92
ATOM   602  N   GLU  885      44.084  39.526  21.071  1.00 25.33
ATOM   604  CA  GLU  885      43.559  38.661  20.058  1.00 27.47
ATOM   605  CB  GLU  885      42.563  37.692  20.661  1.00 31.61
ATOM   606  CG  GLU  885      41.142  38.108  20.642  1.00 46.01
ATOM   607  CD  GLU  885      40.215  36.903  20.799  1.00 55.19
ATOM   608  OE1 GLU  885      40.018  36.469  21.964  1.00 58.80
ATOM   609  OE2 GLU  885      39.715  36.379  19.762  1.00 54.01
ATOM   610  C   GLU  885      42.945  39.470  18.924  1.00 28.59
ATOM   611  O   GLU  885      42.833  38.983  17.805  1.00 26.67
ATOM   612  N   LEU  886      42.560  40.712  19.211  1.00 27.06
ATOM   614  CA  LEU  886      41.994  41.594  18.205  1.00 23.75
ATOM   615  CB  LEU  886      41.483  42.887  18.847  1.00 22.79
ATOM   616  CG  LEU  886      41.122  44.033  17.905  1.00 17.60
ATOM   617  CD1 LEU  886      39.981  43.608  16.999  1.00 11.98
ATOM   618  CD2 LEU  886      40.747  45.285  18.702  1.00 18.31
ATOM   619  C   LEU  886      43.049  41.936  17.147  1.00 24.77
ATOM   620  O   LEU  886      42.767  41.880  15.939  1.00 22.15
ATOM   621  N   LYS  887      44.265  42.246  17.602  1.00 25.08
ATOM   623  CA  LYS  887      45.384  42.613  16.722  1.00 24.94
ATOM   624  CB  LYS  887      46.517  43.227  17.544  1.00 29.70
ATOM   625  CG  LYS  887      46.105  44.304  18.560  1.00 30.67
ATOM   626  CD  LYS  887      45.556  45.551  17.895  1.00 28.99
ATOM   627  CE  LYS  887      45.170  46.645  18.923  1.00 26.07
ATOM   628  NZ  LYS  887      46.354  47.216  19.621  1.00 17.59
ATOM   632  C   LYS  887      45.921  41.407  15.925  1.00 25.59
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FIG. 7(13)

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ATOM   633  O   LYS  887      46.388  41.547  14.793  1.00 30.23
ATOM   634  N   ILE  888      45.917  40.235  16.542  1.00 20.48
ATOM   636  CA  ILE  888      46.347  39.028  15.859  1.00 21.46
ATOM   637  CB  ILE  888      46.306  37.795  16.816  1.00 22.73
ATOM   638  CG2 ILE  888      46.604  36.556  16.047  1.00 24.05
ATOM   639  CG1 ILE  888      47.355  37.929  17.937  1.00 23.32
ATOM   640  CD1 ILE  888      47.092  37.058  19.190  1.00 18.29
ATOM   641  C   ILE  888      45.392  38.822  14.663  1.00 19.51
ATOM   642  O   ILE  888      45.834  38.710  13.529  1.00 19.15
ATOM   643  N   LEU  889      44.088  38.828  14.922  1.00 15.54
ATOM   645  CA  LEU  889      43.078  38.677  13.872  1.00 20.73
ATOM   646  CB  LEU  889      41.658  38.818  14.446  1.00 19.41
ATOM   647  CG  LEU  889      41.204  37.652  15.372  1.00 22.61
ATOM   648  CD1 LEU  889      39.735  37.752  15.697  1.00 13.49
ATOM   649  CD2 LEU  889      41.500  36.263  14.764  1.00 18.87
ATOM   650  C   LEU  889      43.308  39.678  12.762  1.00 24.12
ATOM   651  O   LEU  889      43.342  39.344  11.584  1.00 28.65
ATOM   652  N   ILE  890      43.461  40.931  13.138  1.00 29.62
ATOM   654  CA  ILE  890      43.753  41.953  12.158  1.00 26.41
ATOM   655  CB  ILE  890      43.966  43.310  12.865  1.00 24.45
ATOM   656  CG2 ILE  890      44.555  44.333  11.888  1.00 30.36
ATOM   657  CG1 ILE  890      42.645  43.825  13.438  1.00 19.80
ATOM   658  CD1 ILE  890      42.812  45.061  14.241  1.00 14.93
ATOM   659  C   ILE  890      45.053  41.519  11.415  1.00 28.37
ATOM   660  O   ILE  890      45.126  41.553  10.191  1.00 24.83
ATOM   661  N   HIS  891      46.066  41.099  12.164  1.00 27.37
ATOM   663  CA  HIS  891      47.309  40.659  11.567  1.00 27.76
ATOM   664  CB  HIS  891      48.277  40.175  12.654  1.00 36.80
ATOM   665  CG  HIS  891      49.509  39.507  12.100  1.00 47.58
ATOM   666  CD2 HIS  891      50.811  39.869  12.147  1.00 46.38
ATOM   667  ND1 HIS  891      49.450  38.394  11.276  1.00 52.71
ATOM   669  CE1 HIS  891      50.660  38.114  10.825  1.00 50.46
ATOM   670  NE2 HIS  891      51.505  38.993  11.340  1.00 54.62
ATOM   672  C   HIS  891      47.098  39.536  10.537  1.00 27.01
ATOM   673  O   HIS  891      47.522  39.647   9.402  1.00 32.82
ATOM   674  N   ILE  892      46.580  38.403  10.995  1.00 24.99
ATOM   676  CA  ILE  892      46.300  37.216  10.181  1.00 23.19
ATOM   677  CB  ILE  892      45.233  36.282  10.907  1.00 24.73
ATOM   678  CG2 ILE  892      44.643  35.295   9.941  1.00 20.03
ATOM   679  CG1 ILE  892      45.828  35.522  12.104  1.00 26.32
ATOM   680  CD1 ILE  892      47.015  36.222  12.787  1.00 36.72
ATOM   681  C   ILE  892      45.700  37.625   8.848  1.00 22.57
ATOM   682  O   ILE  892      46.115  37.155   7.775  1.00 25.20
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FIG. 7(14)

ATOM	683	N	GLY	893	44.699	38.492	8.916	1.00	23.88
ATOM	685	CA	GLY	893	44.034	38.910	7.702	1.00	25.37
ATOM	686	C	GLY	893	42.794	38.080	7.403	1.00	25.54
ATOM	687	O	GLY	893	42.303	37.326	8.224	1.00	32.60
ATOM	688	N	HIS	894	42.327	38.149	6.176	1.00	26.97
ATOM	690	CA	HIS	894	41.120	37.457	5.797	1.00	26.35
ATOM	691	CB	HIS	894	40.233	38.464	5.042	1.00	31.72
ATOM	692	CG	HIS	894	39.114	37.833	4.274	1.00	35.68
ATOM	693	CD2	HIS	894	37.818	37.609	4.608	1.00	34.18
ATOM	694	ND1	HIS	894	39.271	37.346	2.989	1.00	38.36
ATOM	696	CE1	HIS	894	38.121	36.854	2.568	1.00	36.24
ATOM	697	NE2	HIS	894	37.224	37.004	3.527	1.00	35.86
ATOM	699	C	HIS	894	41.253	36.182	4.958	1.00	24.38
ATOM	700	O	HIS	894	42.045	36.108	4.007	1.00	24.24
ATOM	701	N	HIS	895	40.426	35.202	5.280	1.00	17.00
ATOM	703	CA	HIS	895	40.379	33.994	4.494	1.00	18.62
ATOM	704	CB	HIS	895	41.363	32.929	4.931	1.00	15.85
ATOM	705	CG	HIS	895	41.446	31.814	3.943	1.00	21.47
ATOM	706	CD2	HIS	895	42.076	31.737	2.745	1.00	17.93
ATOM	707	ND1	HIS	895	40.675	30.676	4.042	1.00	21.96
ATOM	709	CE1	HIS	895	40.819	29.956	2.938	1.00	21.22
ATOM	710	NE2	HIS	895	41.663	30.578	2.137	1.00	10.16
ATOM	712	C	HIS	895	38.979	33.467	4.626	1.00	15.66
ATOM	713	O	HIS	895	38.396	33.656	5.663	1.00	18.76
ATOM	714	N	LEU	896	38.419	32.865	3.567	1.00	21.74
ATOM	716	CA	LEU	896	37.042	32.306	3.584	1.00	18.37
ATOM	717	CB	LEU	896	36.652	31.762	2.210	1.00	17.64
ATOM	718	CG	LEU	896	35.297	31.068	2.218	1.00	25.15
ATOM	719	CD1	LEU	896	34.218	32.077	2.454	1.00	24.41
ATOM	720	CD2	LEU	896	35.042	30.342	0.934	1.00	25.59
ATOM	721	C	LEU	896	36.867	31.172	4.569	1.00	17.58
ATOM	722	O	LEU	896	35.783	30.937	5.068	1.00	23.11
ATOM	723	N	ASN	897	37.952	30.475	4.849	1.00	15.99
ATOM	725	CA	ASN	897	37.878	29.340	5.725	1.00	18.36
ATOM	726	CB	ASN	897	38.589	28.134	5.078	1.00	20.86
ATOM	727	CG	ASN	897	37.928	27.689	3.747	1.00	16.88
ATOM	728	OD1	ASN	897	38.567	27.692	2.694	1.00	14.51
ATOM	729	ND2	ASN	897	36.639	27.346	3.799	1.00	12.11
ATOM	732	C	ASN	897	38.293	29.541	7.188	1.00	25.65
ATOM	733	O	ASN	897	38.648	28.556	7.858	1.00	22.22
ATOM	734	N	VAL	898	38.357	30.800	7.660	1.00	23.53
ATOM	736	CA	VAL	898	38.631	31.079	9.081	1.00	15.38
ATOM	737	CB	VAL	898	40.036	31.719	9.457	1.00	11.47

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FIG. 7(15)

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ATOM   738 CG1 VAL  898      41.146  30.813   9.017  1.00 14.76
ATOM   739 CG2 VAL  898      40.236  33.119   8.883  1.00  8.71
ATOM   740 C   VAL  898      37.475  31.959   9.477  1.00 15.57
ATOM   741 O   VAL  898      36.698  32.382   8.620  1.00 17.87
ATOM   742 N   VAL  899      37.226  32.049  10.773  1.00 18.55
ATOM   744 CA  VAL  899      36.155  32.882  11.264  1.00 20.68
ATOM   745 CB  VAL  899      35.757  32.487  12.720  1.00 19.98
ATOM   746 CG1 VAL  899      34.618  33.384  13.202  1.00 18.29
ATOM   747 CG2 VAL  899      35.346  31.016  12.788  1.00 12.67
ATOM   748 C   VAL  899      36.807  34.272  11.244  1.00 21.95
ATOM   749 O   VAL  899      37.725  34.517  12.003  1.00 21.42
ATOM   750 N   ASN  900      36.352  35.164  10.363  1.00 23.43
ATOM   752 CA  ASN  900      36.930  36.526  10.226  1.00 23.52
ATOM   753 CB  ASN  900      36.737  37.061   8.803  1.00 19.45
ATOM   754 CG  ASN  900      37.350  36.177   7.782  1.00 19.58
ATOM   755 OD1 ASN  900      38.578  36.087   7.667  1.00 17.65
ATOM   756 ND2 ASN  900      36.511  35.528   7.004  1.00 20.34
ATOM   759 C   ASN  900      36.484  37.641  11.152  1.00 17.00
ATOM   760 O   ASN  900      35.343  37.704  11.598  1.00 16.94
ATOM   761 N   LEU  901      37.413  38.544  11.384  1.00 17.25
ATOM   763 CA  LEU  901      37.167  39.733  12.160  1.00 17.98
ATOM   764 CB  LEU  901      38.494  40.447  12.426  1.00 16.80
ATOM   765 CG  LEU  901      38.444  41.819  13.101  1.00 14.17
ATOM   766 CD1 LEU  901      38.018  41.673  14.560  1.00 11.71
ATOM   767 CD2 LEU  901      39.782  42.435  13.008  1.00  2.76
ATOM   768 C   LEU  901      36.354  40.578  11.174  1.00 20.28
ATOM   769 O   LEU  901      36.669  40.612   9.965  1.00 18.06
ATOM   770 N   LEU  902      35.280  41.180  11.686  1.00 19.74
ATOM   772 CA  LEU  902      34.398  42.031  10.917  1.00 15.84
ATOM   773 CB  LEU  902      32.950  41.593  11.087  1.00 11.70
ATOM   774 CG  LEU  902      32.615  40.230  10.473  1.00 13.49
ATOM   775 CD1 LEU  902      31.142  39.827  10.774  1.00 13.78
ATOM   776 CD2 LEU  902      32.856  40.270   8.981  1.00 12.15
ATOM   777 C   LEU  902      34.566  43.486  11.345  1.00 19.59
ATOM   778 O   LEU  902      34.466  44.380  10.510  1.00 23.95
ATOM   779 N   GLY  903      34.854  43.724  12.625  1.00 20.15
ATOM   781 CA  GLY  903      35.037  45.090  13.114  1.00 21.60
ATOM   782 C   GLY  903      35.147  45.075  14.620  1.00 24.02
ATOM   783 O   GLY  903      35.070  43.991  15.194  1.00 26.53
ATOM   784 N   ALA  904      35.305  46.236  15.269  1.00 25.19
ATOM   786 CA  ALA  904      35.411  46.293  16.740  1.00 18.80
ATOM   787 CB  ALA  904      36.830  46.074  17.177  1.00 12.62
ATOM   788 C   ALA  904      34.886  47.559  17.386  1.00 20.83
```

FIG. 7(16)

ATOM	789	O	ALA	904	34.789	48,616	16.765	1.00	26.12
ATOM	790	N	CYS	905	34.617	47.443	18.674	1.00	21.21
ATOM	792	CA	CYS	905	34.128	48.530	19.493	1.00	19.91
ATOM	793	CB	CYS	905	32.804	48.160	20.115	1.00	16.08
ATOM	794	SG	CYS	905	31.561	47.894	18.851	1.00	15.32
ATOM	795	C	CYS	905	35.176	48.687	20.556	1.00	23.00
ATOM	796	O	CYS	905	35.245	47.890	21.486	1.00	24.21
ATOM	797	N	THR	906	36.042	49.674	20.361	1.00	26.02
ATOM	799	CA	THR	906	37.140	49.945	21.283	1.00	29.46
ATOM	800	CB	THR	906	38.514	49.768	20.574	1.00	26.67
ATOM	801	OG1	THR	906	38.635	50.739	19.526	1.00	29.06
ATOM	803	CG2	THR	906	38.648	48.363	20.001	1.00	23.13
ATOM	804	C	THR	906	37.130	51.346	21.928	1.00	30.07
ATOM	805	O	THR	906	37.642	51.522	23.036	1.00	29.29
ATOM	806	N	LYS	907	36.582	52.332	21.228	1.00	32.81
ATOM	808	CA	LYS	907	36.554	53.686	21.745	1.00	39.38
ATOM	809	CB	LYS	907	35.982	54.637	20.701	1.00	41.03
ATOM	810	CG	LYS	907	34.536	54.432	20.386	1.00	48.86
ATOM	811	CD	LYS	907	34.071	55.528	19.427	1.00	57.25
ATOM	812	CE	LYS	907	33.996	56.878	20.143	1.00	63.62
ATOM	813	NZ	LYS	907	33.688	58.001	19.213	1.00	68.81
ATOM	817	C	LYS	907	35.796	53.779	23.070	1.00	44.43
ATOM	818	O	LYS	907	35.094	52.867	23.442	1.00	44.52
ATOM	819	N	PRO	908	36.034	54.838	23.857	1.00	49.18
ATOM	820	CD	PRO	908	37.147	55.794	23.712	1.00	50.93
ATOM	821	CA	PRO	908	35.358	55.022	25.149	1.00	46.86
ATOM	822	CB	PRO	908	35.963	56.324	25.647	1.00	49.68
ATOM	823	CG	PRO	908	37.387	56.216	25.143	1.00	51.43
ATOM	824	C	PRO	908	33.852	55.145	25.036	1.00	44.06
ATOM	825	O	PRO	908	33.345	55.600	24.008	1.00	44.40
ATOM	826	N	GLY	909	33.154	54.772	26.110	1.00	41.44
ATOM	828	CA	GLY	909	31.698	54.842	26.135	1.00	37.38
ATOM	829	C	GLY	909	30.999	53.502	26.035	1.00	38.26
ATOM	830	O	GLY	909	29.778	53.439	25.751	1.00	40.07
ATOM	831	N	GLY	910	31.753	52.424	26.264	1.00	36.39
ATOM	833	CA	GLY	910	31.178	51.087	26.190	1.00	34.35
ATOM	834	C	GLY	910	32.180	49.961	26.360	1.00	31.85
ATOM	835	O	GLY	910	33.394	50.235	26.528	1.00	27.95
ATOM	836	N	PRO	911	31.710	48.686	26.319	1.00	27.95
ATOM	837	CD	PRO	911	30.280	48.339	26.197	1.00	28.51
ATOM	838	CA	PRO	911	32.511	47.463	26.467	1.00	25.21
ATOM	839	CB	PRO	911	31.438	46.393	26.724	1.00	27.44
ATOM	840	CG	PRO	911	30.315	46.840	25.891	1.00	22.45

FIG. 7(17)

```
ATOM   841  C   PRO  911      33.340  47.118  25.234  1.00 22.33
ATOM   842  O   PRO  911      32.903  47.366  24.124  1.00 23.57
ATOM   843  N   LEU  912      34.548  46.581  25.430  1.00 22.75
ATOM   845  CA  LEU  912      35.412  46.177  24.308  1.00 23.22
ATOM   846  CB  LEU  912      36.778  45.685  24.812  1.00 23.67
ATOM   847  CG  LEU  912      38.095  45.759  24.005  1.00 24.34
ATOM   848  CD1 LEU  912      38.988  44.618  24.490  1.00 20.11
ATOM   849  CD2 LEU  912      37.906  45.745  22.477  1.00 12.72
ATOM   850  C   LEU  912      34.692  45.010  23.627  1.00 22.56
ATOM   851  O   LEU  912      34.342  44.029  24.283  1.00 17.69
ATOM   852  N   MET  913      34.417  45.142  22.334  1.00 24.19
ATOM   854  CA  MET  913      33.724  44.085  21.617  1.00 21.51
ATOM   855  CB  MET  913      32.264  44.456  21.429  1.00 22.09
ATOM   856  CG  MET  913      31.489  44.461  22.728  1.00 22.26
ATOM   857  SD  MET  913      29.829  45.009  22.484  1.00 24.17
ATOM   858  CE  MET  913      30.127  46.676  22.205  1.00 20.40
ATOM   859  C   MET  913      34.386  43.768  20.295  1.00 20.42
ATOM   860  O   MET  913      34.701  44.657  19.519  1.00 21.08
ATOM   861  N   VAL  914      34.703  42.491  20.102  1.00 23.72
ATOM   863  CA  VAL  914      35.354  42.001  18.891  1.00 20.24
ATOM   864  CB  VAL  914      36.614  41.170  19.232  1.00 16.92
ATOM   865  CG1 VAL  914      37.254  40.637  17.958  1.00 19.36
ATOM   866  CG2 VAL  914      37.629  42.055  19.972  1.00 13.30
ATOM   867  C   VAL  914      34.296  41.210  18.132  1.00 19.70
ATOM   868  O   VAL  914      33.836  40.191  18.587  1.00 26.45
ATOM   869  N   ILE  915      33.844  41.775  17.026  1.00 19.86
ATOM   871  CA  ILE  915      32.806  41.212  16.179  1.00 20.42
ATOM   872  CB  ILE  915      32.034  42.384  15.455  1.00 18.44
ATOM   873  CG2 ILE  915      30.721  41.909  14.869  1.00 12.35
ATOM   874  CG1 ILE  915      31.756  43.531  16.426  1.00 17.60
ATOM   875  CD1 ILE  915      31.358  44.822  15.735  1.00 15.14
ATOM   876  C   ILE  915      33.457  40.287  15.115  1.00 23.98
ATOM   877  O   ILE  915      34.361  40.722  14.373  1.00 23.30
ATOM   878  N   VAL  916      33.054  39.011  15.075  1.00 20.08
ATOM   880  CA  VAL  916      33.594  38.089  14.077  1.00 17.64
ATOM   881  CB  VAL  916      34.543  37.003  14.680  1.00  9.09
ATOM   882  CG1 VAL  916      35.703  37.685  15.350  1.00  5.05
ATOM   883  CG2 VAL  916      33.817  36.126  15.678  1.00 10.26
ATOM   884  C   VAL  916      32.422  37.486  13.342  1.00 17.74
ATOM   885  O   VAL  916      31.275  37.790  13.664  1.00 20.02
ATOM   886  N   GLU  917      32.684  36.702  12.303  1.00 14.74
ATOM   888  CA  GLU  917      31.589  36.073  11.577  1.00 13.03
ATOM   889  CB  GLU  917      32.120  35.409  10.332  1.00 14.06
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FIG. 7(18)

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ATOM   890  CG  GLU  917      32.946  36.348   9.464  1.00 24.11
ATOM   891  CD  GLU  917      33.543  35.651   8.258  1.00 26.52
ATOM   892  OE1 GLU  917      33.060  35.904   7.139  1.00 27.67
ATOM   893  OE2 GLU  917      34.480  34.841   8.425  1.00 28.39
ATOM   894  C   GLU  917      30.853  35.051  12.434  1.00 14.78
ATOM   895  O   GLU  917      31.445  34.344  13.234  1.00 14.35
ATOM   896  N   PHE  918      29.557  34.958  12.229  1.00 19.12
ATOM   898  CA  PHE  918      28.688  34.042  12.966  1.00 18.07
ATOM   899  CB  PHE  918      27.334  34.721  13.168  1.00 18.48
ATOM   900  CG  PHE  918      26.275  33.840  13.748  1.00 17.83
ATOM   901  CD1 PHE  918      26.328  33.456  15.081  1.00 18.65
ATOM   902  CD2 PHE  918      25.213  33.400  12.953  1.00 21.10
ATOM   903  CE1 PHE  918      25.336  32.639  15.613  1.00 18.12
ATOM   904  CE2 PHE  918      24.210  32.580  13.473  1.00 14.29
ATOM   905  CZ  PHE  918      24.274  32.201  14.799  1.00 17.78
ATOM   906  C   PHE  918      28.487  32.805  12.113  1.00 18.83
ATOM   907  O   PHE  918      28.081  32.917  10.964  1.00 11.61
ATOM   908  N   CYS  919      28.761  31.635  12.676  1.00 19.49
ATOM   910  CA  CYS  919      28.590  30.372  11.947  1.00 19.00
ATOM   911  CB  CYS  919      29.855  29.566  12.069  1.00 16.78
ATOM   912  SG  CYS  919      31.225  30.428  11.325  1.00 16.84
ATOM   913  C   CYS  919      27.383  29.659  12.556  1.00 21.18
ATOM   914  O   CYS  919      27.474  29.135  13.676  1.00 20.69
ATOM   915  N   LYS  920      26.269  29.653  11.818  1.00 18.06
ATOM   917  CA  LYS  920      24.998  29.130  12.318  1.00 28.13
ATOM   918  CB  LYS  920      23.799  29.581  11.459  1.00 25.17
ATOM   919  CG  LYS  920      23.595  28.799  10.207  1.00 33.78
ATOM   920  CD  LYS  920      22.658  29.509   9.250  1.00 40.32
ATOM   921  CE  LYS  920      21.261  29.706   9.829  1.00 51.94
ATOM   922  NZ  LYS  920      20.343  30.396   8.845  1.00 56.09
ATOM   926  C   LYS  920      24.813  27.679  12.700  1.00 28.53
ATOM   927  O   LYS  920      24.020  27.405  13.592  1.00 31.57
ATOM   928  N   PHE  921      25.533  26.757  12.078  1.00 24.89
ATOM   930  CA  PHE  921      25.328  25.362  12.409  1.00 21.12
ATOM   931  CB  PHE  921      25.497  24.518  11.171  1.00 20.75
ATOM   932  CG  PHE  921      24.588  24.917  10.084  1.00 22.95
ATOM   933  CD1 PHE  921      23.224  24.734  10.219  1.00 27.55
ATOM   934  CD2 PHE  921      25.077  25.564   8.975  1.00 29.40
ATOM   935  CE1 PHE  921      22.362  25.205   9.269  1.00 35.42
ATOM   936  CE2 PHE  921      24.237  26.041   8.013  1.00 32.24
ATOM   937  CZ  PHE  921      22.869  25.870   8.154  1.00 38.81
ATOM   938  C   PHE  921      26.158  24.823  13.535  1.00 21.23
ATOM   939  O   PHE  921      26.002  23.664  13.900  1.00 22.74
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FIG. 7(19)

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ATOM   940  N   GLY  922      27.047  25.659  14.065  1.00 18.39
ATOM   942  CA  GLY  922      27.906  25.257  15.172  1.00 17.62
ATOM   943  C   GLY  922      29.115  24.455  14.759  1.00 18.42
ATOM   944  O   GLY  922      29.331  24.230  13.581  1.00 20.81
ATOM   945  N   ASN  923      29.903  24.011  15.729  1.00 22.93
ATOM   947  CA  ASN  923      31.092  23.223  15.430  1.00 24.85
ATOM   948  CB  ASN  923      31.867  22.837  16.705  1.00 29.68
ATOM   949  CG  ASN  923      31.212  21.710  17.493  1.00 39.14
ATOM   950  OD1 ASN  923      31.252  20.550  17.087  1.00 41.11
ATOM   951  ND2 ASN  923      30.662  22.038  18.660  1.00 35.87
ATOM   954  C   ASN  923      30.818  22.019  14.523  1.00 21.09
ATOM   955  O   ASN  923      29.685  21.566  14.370  1.00 20.59
ATOM   956  N   LEU  924      31.867  21.523  13.896  1.00 21.13
ATOM   958  CA  LEU  924      31.740  20.431  12.957  1.00 22.85
ATOM   959  CB  LEU  924      33.019  20.377  12.126  1.00 23.67
ATOM   960  CG  LEU  924      33.019  19.462  10.920  1.00 17.22
ATOM   961  CD1 LEU  924      31.776  19.699  10.125  1.00 18.21
ATOM   962  CD2 LEU  924      34.268  19.729  10.095  1.00 23.82
ATOM   963  C   LEU  924      31.414  19.062  13.558  1.00 22.65
ATOM   964  O   LEU  924      30.601  18.326  13.013  1.00 26.13
ATOM   965  N   SER  925      31.035  18.742  14.687  1.00 20.06
ATOM   967  CA  SER  925      31.853  17.463  15.383  1.00 25.99
ATOM   968  CB  SER  925      32.741  17.400  16.623  1.00 27.28
ATOM   969  OG  SER  925      32.426  16.272  17.416  1.00 32.86
ATOM   971  C   SER  925      30.432  17.217  15.812  1.00 26.73
ATOM   972  O   SER  925      29.863  16.148  15.552  1.00 30.93
ATOM   973  N   THR  926      29.892  18.190  16.534  1.00 24.48
ATOM   975  CA  THR  926      28.535  18.129  16.996  1.00 19.27
ATOM   976  CB  THR  926      28.258  19.336  17.901  1.00 16.05
ATOM   977  OG1 THR  926      29.230  19.374  18.951  1.00 18.42
ATOM   979  CG2 THR  926      26.927  19.216  18.550  1.00 13.93
ATOM   980  C   THR  926      27.610  18.048  15.758  1.00 20.47
ATOM   981  O   THR  926      26.654  17.258  15.711  1.00 25.12
ATOM   982  N   TYR  927      27.961  18.760  14.701  1.00 18.97
ATOM   984  CA  TYR  927      27.128  18.715  13.515  1.00 20.97
ATOM   985  CB  TYR  927      27.597  19.720  12.464  1.00 18.52
ATOM   986  CG  TYR  927      26.708  19.683  11.230  1.00 18.69
ATOM   987  CD1 TYR  927      25.391  20.196  11.266  1.00 14.64
ATOM   988  CE1 TYR  927      24.567  20.173  10.125  1.00 13.73
ATOM   989  CD2 TYR  927      27.173  19.138  10.031  1.00 22.28
ATOM   990  CE2 TYR  927      26.347  19.104   8.879  1.00 24.92
ATOM   991  CZ  TYR  927      25.058  19.626   8.944  1.00 16.40
ATOM   992  OH  TYR  927      24.285  19.600   7.819  1.00 23.87
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FIG. 7(20)

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ATOM   994 C   TYR  927      27.118  17.343  12.855  1.00 23.85
ATOM   995 O   TYR  927      26.078  16.860  12.428  1.00 24.11
ATOM   996 N   LEU  928      28.313  16.793  12.665  1.00 28.91
ATOM   998 CA  LEU  928      28.513  15.495  12.020  1.00 31.09
ATOM   999 CB  LEU  928      30.017  15.192  11.863  1.00 27.50
ATOM  1000 CG  LEU  928      30.813  16.159  10.953  1.00 24.21
ATOM  1001 CD1 LEU  928      32.302  15.880  11.065  1.00 24.38
ATOM  1002 CD2 LEU  928      30.343  16.097   9.514  1.00 12.63
ATOM  1003 C   LEU  928      27.801  14.369  12.747  1.00 31.00
ATOM  1004 O   LEU  928      27.164  13.540  12.117  1.00 31.53
ATOM  1005 N   ARG  929      27.883  14.351  14.067  1.00 34.05
ATOM  1007 CA  ARG  929      27.193  13.316  14.833  1.00 40.50
ATOM  1008 CB  ARG  929      27.406  13.552  16.325  1.00 41.71
ATOM  1009 CG  ARG  929      28.358  12.605  16.969  1.00 40.42
ATOM  1010 CD  ARG  929      29.253  13.359  17.908  1.00 49.36
ATOM  1011 NE  ARG  929      28.521  13.947  19.020  1.00 62.28
ATOM  1013 CZ  ARG  929      28.946  14.985  19.749  1.00 65.86
ATOM  1014 NH1 ARG  929      28.178  15.432  20.753  1.00 66.98
ATOM  1017 NH2 ARG  929      30.122  15.573  19.492  1.00 58.39
ATOM  1020 C   ARG  929      25.678  13.304  14.529  1.00 42.76
ATOM  1021 O   ARG  929      25.075  12.234  14.370  1.00 44.84
ATOM  1022 N   SER  930      25.089  14.498  14.412  1.00 41.42
ATOM  1024 CA  SER  930      23.663  14.677  14.150  1.00 37.04
ATOM  1025 CB  SER  930      23.324  16.151  14.250  1.00 38.80
ATOM  1026 OG  SER  930      23.662  16.816  13.041  1.00 37.58
ATOM  1028 C   SER  930      23.226  14.226  12.774  1.00 38.41
ATOM  1029 O   SER  930      22.034  14.254  12.451  1.00 43.98
ATOM  1030 N   LYS  931      24.179  13.865  11.936  1.00 37.60
ATOM  1032 CA  LYS  931      23.845  13.472  10.590  1.00 38.82
ATOM  1033 CB  LYS  931      24.575  14.387   9.606  1.00 43.10
ATOM  1034 CG  LYS  931      24.388  15.864   9.884  1.00 45.62
ATOM  1035 CD  LYS  931      22.999  16.302   9.487  1.00 49.49
ATOM  1036 CE  LYS  931      22.901  16.444   7.985  1.00 46.94
ATOM  1037 NZ  LYS  931      21.501  16.690   7.568  1.00 49.54
ATOM  1041 C   LYS  931      24.136  12.011  10.264  1.00 39.02
ATOM  1042 O   LYS  931      23.991  11.615   9.111  1.00 42.79
ATOM  1043 N   ARG  932      24.522  11.199  11.247  1.00 37.44
ATOM  1045 CA  ARG  932      24.793   9.776  10.971  1.00 38.33
ATOM  1046 CB  ARG  932      25.149   9.020  12.244  1.00 33.55
ATOM  1047 CG  ARG  932      26.456   9.461  12.798  1.00 33.92
ATOM  1048 CD  ARG  932      26.812   8.729  14.043  1.00 35.88
ATOM  1049 NE  ARG  932      28.223   8.929  14.368  1.00 43.26
ATOM  1051 CZ  ARG  932      28.720   8.909  15.604  1.00 45.56
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FIG. 7(21)

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ATOM  1052 NH1 ARG  932      30.018   9.098  15.809  1.00 47.32
ATOM  1055 NH2 ARG  932      27.916   8.725  16.645  1.00 53.04
ATOM  1058 C   ARG  932      23.621   9.087  10.273  1.00 41.54
ATOM  1059 O   ARG  932      23.821   8.135   9.532  1.00 41.31
ATOM  1060 N   ASN  933      22.412   9.582  10.536  1.00 44.37
ATOM  1062 CA  ASN  933      21.181   9.069   9.956  1.00 47.14
ATOM  1063 CB  ASN  933      19.974   9.453  10.824  1.00 54.55
ATOM  1064 CG  ASN  933      19.783   8.545  12.050  1.00 57.14
ATOM  1065 OD1 ASN  933      20.622   7.693  12.369  1.00 54.11
ATOM  1066 ND2 ASN  933      18.668   8.752  12.757  1.00 57.76
ATOM  1069 C   ASN  933      20.974   9.680   8.589  1.00 49.60
ATOM  1070 O   ASN  933      20.260   9.125   7.753  1.00 55.62
ATOM  1071 N   GLU  934      21.494  10.888   8.403  1.00 52.11
ATOM  1073 CA  GLU  934      21.365  11.580   7.122  1.00 52.39
ATOM  1074 CB  GLU  934      20.859  13.007   7.323  1.00 56.14
ATOM  1075 CG  GLU  934      19.434  13.095   7.822  1.00 59.40
ATOM  1076 CD  GLU  934      19.332  13.686   9.211  1.00 63.97
ATOM  1077 OE1 GLU  934      18.427  13.250   9.953  1.00 69.17
ATOM  1078 OE2 GLU  934      20.138  14.580   9.563  1.00 64.27
ATOM  1079 C   GLU  934      22.677  11.593   6.332  1.00 50.45
ATOM  1080 O   GLU  934      23.188  12.663   5.961  1.00 50.70
ATOM  1081 N   PHE  935      23.205  10.396   6.070  1.00 46.25
ATOM  1083 CA  PHE  935      24.440  10.225   5.325  1.00 41.20
ATOM  1084 CB  PHE  935      25.638  10.121   6.268  1.00 40.97
ATOM  1085 CG  PHE  935      26.923   9.800   5.555  1.00 39.81
ATOM  1086 CD1 PHE  935      27.327   8.478   5.378  1.00 34.65
ATOM  1087 CD2 PHE  935      27.676  10.815   4.970  1.00 33.02
ATOM  1088 CE1 PHE  935      28.455   8.180   4.617  1.00 32.30
ATOM  1089 CE2 PHE  935      28.793  10.515   4.218  1.00 29.96
ATOM  1090 CZ  PHE  935      29.181   9.201   4.037  1.00 29.08
ATOM  1091 C   PHE  935      24.474   9.006   4.412  1.00 40.49
ATOM  1092 O   PHE  935      24.394   7.871   4.865  1.00 40.47
ATOM  1093 N   VAL  936      24.694   9.237   3.133  1.00 38.66
ATOM  1095 CA  VAL  936      24.809   8.138   2.208  1.00 43.29
ATOM  1096 CB  VAL  936      23.663   8.113   1.221  1.00 40.39
ATOM  1097 CG1 VAL  936      23.739   9.312   0.280  1.00 34.50
ATOM  1098 CG2 VAL  936      23.720   6.841   0.444  1.00 42.47
ATOM  1099 C   VAL  936      26.087   8.436   1.438  1.00 49.63
ATOM  1100 O   VAL  936      26.322   9.585   1.081  1.00 55.64
ATOM  1101 N   PRO  937      26.960   7.433   1.222  1.00 50.29
ATOM  1102 CD  PRO  937      26.966   6.087   1.822  1.00 49.69
ATOM  1103 CA  PRO  937      28.207   7.669   0.483  1.00 50.65
ATOM  1104 CB  PRO  937      28.676   6.260   0.177  1.00 46.68
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0 6 5 3 6 3 3 0 2 0 4

FIG. 7(22)

ATOM	1105	CG	PRO	937	28.378	5.582	1.493	1.00	47.42
ATOM	1106	C	PRO	937	28.019	8.501	-0.774	1.00	53.83
ATOM	1107	O	PRO	937	28.644	9.558	-0.937	1.00	53.64
ATOM	1108	N	TYR	938	27.153	8.046	-1.660	1.00	54.91
ATOM	1110	CA	TYR	938	26.918	8.803	-2.859	1.00	62.52
ATOM	1111	CB	TYR	938	27.580	8.161	-4.080	1.00	67.73
ATOM	1120	C	TYR	938	25.443	8.800	-3.059	1.00	67.31
ATOM	1121	O	TYR	938	24.722	8.082	-2.361	1.00	66.13
ATOM	1122	N	LYS	939	25.027	9.601	-4.038	1.00	75.30
ATOM	1124	CA	LYS	939	23.639	9.770	-4.445	1.00	81.21
ATOM	1125	CB	LYS	939	23.209	11.254	-4.284	1.00	80.04
ATOM	1126	C	LYS	939	23.543	9.331	-5.921	1.00	87.24
ATOM	1127	O	LYS	939	24.582	9.384	-6.646	1.00	90.23
ATOM	1129	CB	ASP	998	17.986	15.692	3.023	1.00	53.00
ATOM	1130	C	ASP	998	20.489	15.723	3.377	1.00	55.33
ATOM	1131	O	ASP	998	21.051	16.058	4.426	1.00	56.29
ATOM	1134	N	ASP	998	19.408	16.931	1.400	1.00	54.52
ATOM	1136	CA	ASP	998	19.279	16.514	2.829	1.00	55.12
ATOM	1137	N	PHE	999	20.900	14.687	2.653	1.00	52.90
ATOM	1139	CA	PHE	999	21.984	13.834	3.111	1.00	46.86
ATOM	1140	CB	PHE	999	21.841	12.420	2.528	1.00	51.05
ATOM	1141	CG	PHE	999	20.897	11.537	3.296	1.00	55.62
ATOM	1142	CD1	PHE	999	21.249	10.236	3.606	1.00	56.12
ATOM	1143	CD2	PHE	999	19.671	12.022	3.751	1.00	60.98
ATOM	1144	CE1	PHE	999	20.397	9.422	4.368	1.00	61.93
ATOM	1145	CE2	PHE	999	18.816	11.222	4.509	1.00	61.09
ATOM	1146	CZ	PHE	999	19.183	9.917	4.820	1.00	60.64
ATOM	1147	C	PHE	999	23.373	14.302	2.837	1.00	41.06
ATOM	1148	O	PHE	999	23.632	14.937	1.820	1.00	36.04
ATOM	1149	N	LEU	1000	24.238	14.057	3.812	1.00	37.57
ATOM	1151	CA	LEU	1000	25.651	14.326	3.652	1.00	36.08
ATOM	1152	CB	LEU	1000	26.401	14.306	4.985	1.00	35.67
ATOM	1153	CG	LEU	1000	25.923	15.286	6.057	1.00	36.23
ATOM	1154	CD1	LEU	1000	26.941	15.370	7.201	1.00	29.94
ATOM	1155	CD2	LEU	1000	25.707	16.654	5.435	1.00	38.66
ATOM	1156	C	LEU	1000	26.089	13.139	2.756	1.00	35.16
ATOM	1157	O	LEU	1000	25.330	12.167	2.569	1.00	32.68
ATOM	1158	N	THR	1001	27.292	13.228	2.201	1.00	29.92
ATOM	1160	CA	THR	1001	27.803	12.236	1.285	1.00	25.42
ATOM	1161	CB	THR	1001	27.396	12.560	-0.178	1.00	30.10

FIG. 7(23)

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ATOM  1162 OG1 THR 1001      28.055  13.771  -0.605  1.00 33.54
ATOM  1164 CG2 THR 1001      25.878  12.741  -0.326  1.00 29.24
ATOM  1165 C   THR 1001      29.303  12.388   1.338  1.00 27.68
ATOM  1166 O   THR 1001      29.805  13.303   1.985  1.00 28.02
ATOM  1167 N   LEU 1002      30.020  11.552   0.592  1.00 26.85
ATOM  1169 CA  LEU 1002      31.454  11.636   0.572  1.00 24.39
ATOM  1170 CB  LEU 1002      32.044  10.545  -0.298  1.00 22.71
ATOM  1171 CG  LEU 1002      32.269   9.304   0.573  1.00 27.80
ATOM  1172 CD1 LEU 1002      32.727   8.142  -0.280  1.00 27.11
ATOM  1173 CD2 LEU 1002      33.295   9.592   1.670  1.00 24.64
ATOM  1174 C   LEU 1002      31.908  12.995   0.099  1.00 26.97
ATOM  1175 O   LEU 1002      32.967  13.459   0.506  1.00 26.84
ATOM  1176 N   GLU 1003      31.063  13.682  -0.666  1.00 27.89
ATOM  1178 CA  GLU 1003      31.428  15.000  -1.185  1.00 28.02
ATOM  1179 CB  GLU 1003      30.419  15.503  -2.208  1.00 32.50
ATOM  1180 CG  GLU 1003      30.988  16.624  -3.077  1.00 37.49
ATOM  1181 CD  GLU 1003      31.915  16.121  -4.170  1.00 38.89
ATOM  1182 OE1 GLU 1003      33.065  15.743  -3.886  1.00 43.61
ATOM  1183 OE2 GLU 1003      31.488  16.102  -5.331  1.00 46.97
ATOM  1184 C   GLU 1003      31.591  16.044  -0.117  1.00 25.24
ATOM  1185 O   GLU 1003      32.485  16.885  -0.211  1.00 26.57
ATOM  1186 N   HIS 1004      30.748  15.953   0.913  1.00 23.16
ATOM  1188 CA  HIS 1004      30.746  16.884   2.040  1.00 19.58
ATOM  1189 CB  HIS 1004      29.508  16.719   2.912  1.00 19.12
ATOM  1190 CG  HIS 1004      28.227  17.024   2.208  1.00 23.47
ATOM  1191 CD2 HIS 1004      27.173  17.784   2.570  1.00 23.78
ATOM  1192 ND1 HIS 1004      27.911  16.508   0.964  1.00 27.88
ATOM  1194 CE1 HIS 1004      26.718  16.936   0.596  1.00 20.57
ATOM  1195 NE2 HIS 1004      26.246  17.710   1.554  1.00 23.61
ATOM  1197 C   HIS 1004      31.940  16.631   2.885  1.00 21.64
ATOM  1198 O   HIS 1004      32.753  17.508   3.075  1.00 25.00
ATOM  1199 N   LEU 1005      32.055  15.419   3.394  1.00 23.11
ATOM  1201 CA  LEU 1005      33.186  15.072   4.222  1.00 23.79
ATOM  1202 CB  LEU 1005      33.131  13.581   4.589  1.00 24.17
ATOM  1203 CG  LEU 1005      32.183  13.199   5.743  1.00 27.48
ATOM  1204 CD1 LEU 1005      31.030  14.150   5.821  1.00 25.44
ATOM  1205 CD2 LEU 1005      31.679  11.771   5.627  1.00 22.50
ATOM  1206 C   LEU 1005      34.506  15.467   3.558  1.00 20.41
ATOM  1207 O   LEU 1005      35.361  16.034   4.206  1.00 21.82
ATOM  1208 N   ILE 1006      34.668  15.212   2.264  1.00 19.50
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FIG. 7(24)

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ATOM  1210  CA  ILE 1006      35.914  15.589   1.609  1.00 18.77
ATOM  1211  CB  ILE 1006      36.128  14.806   0.276  1.00 16.46
ATOM  1212  CG2 ILE 1006      37.602  14.777  -0.103  1.00 12.82
ATOM  1213  CG1 ILE 1006      35.718  13.341   0.441  1.00 20.16
ATOM  1214  CD1 ILE 1006      35.961  12.446  -0.834  1.00 11.88
ATOM  1215  C   ILE 1006      35.998  17.136   1.377  1.00 22.88
ATOM  1216  O   ILE 1006      37.113  17.730   1.431  1.00 21.25
ATOM  1217  N   CYS 1007      34.854  17.788   1.108  1.00 21.47
ATOM  1219  CA  CYS 1007      34.860  19.240   0.909  1.00 21.66
ATOM  1220  CB  CYS 1007      33.522  19.825   0.431  1.00 24.87
ATOM  1221  SG  CYS 1007      33.760  21.544  -0.085  1.00 30.17
ATOM  1222  C   CYS 1007      35.247  19.953   2.196  1.00 22.22
ATOM  1223  O   CYS 1007      36.024  20.905   2.158  1.00 25.94
ATOM  1224  N   TYR 1008      34.691  19.527   3.331  1.00 20.53
ATOM  1226  CA  TYR 1008      35.030  20.132   4.617  1.00 17.94
ATOM  1227  CB  TYR 1008      34.248  19.493   5.758  1.00 18.61
ATOM  1228  CG  TYR 1008      32.753  19.488   5.626  1.00 17.97
ATOM  1229  CD1 TYR 1008      32.019  18.455   6.175  1.00 16.67
ATOM  1230  CE1 TYR 1008      30.641  18.462   6.158  1.00 22.78
ATOM  1231  CD2 TYR 1008      32.059  20.549   5.031  1.00 22.19
ATOM  1232  CE2 TYR 1008      30.646  20.569   5.011  1.00 20.60
ATOM  1233  CZ  TYR 1008      29.949  19.513   5.579  1.00 23.22
ATOM  1234  OH  TYR 1008      28.574  19.454   5.551  1.00 18.30
ATOM  1236  C   TYR 1008      36.537  19.945   4.883  1.00 18.55
ATOM  1237  O   TYR 1008      37.217  20.917   5.256  1.00 20.35
ATOM  1238  N   SER 1009      37.056  18.726   4.642  1.00 14.74
ATOM  1240  CA  SER 1009      38.476  18.409   4.852  1.00 13.39
ATOM  1241  CB  SER 1009      38.810  16.962   4.473  1.00 17.24
ATOM  1242  OG  SER 1009      38.018  16.001   5.152  1.00 26.04
ATOM  1244  C   SER 1009      39.310  19.309   3.985  1.00 16.36
ATOM  1245  O   SER 1009      40.317  19.864   4.446  1.00 20.21
ATOM  1246  N   PHE 1010      38.953  19.375   2.699  1.00 20.97
ATOM  1248  CA  PHE 1010      39.654  20.246   1.742  1.00 23.34
ATOM  1249  CB  PHE 1010      38.985  20.126   0.365  1.00 18.83
ATOM  1250  CG  PHE 1010      39.605  21.002  -0.685  1.00 17.13
ATOM  1251  CD1 PHE 1010      38.830  21.940  -1.370  1.00 13.94
ATOM  1252  CD2 PHE 1010      40.979  20.918  -0.968  1.00 17.85
ATOM  1253  CE1 PHE 1010      39.410  22.804  -2.339  1.00 16.30
ATOM  1254  CE2 PHE 1010      41.569  21.763  -1.917  1.00 17.15
ATOM  1255  CZ  PHE 1010      40.772  22.714  -2.608  1.00 18.02
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FIG. 7(25)

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ATOM  1256  C   PHE 1010      39.688  21.746   2.242  1.00 22.02
ATOM  1257  O   PHE 1010      40.749  22.390   2.298  1.00 23.00
ATOM  1258  N   GLN 1011      38.535  22.271   2.643  1.00 19.25
ATOM  1260  CA  GLN 1011      38.418  23.640   3.159  1.00 19.07
ATOM  1261  CB  GLN 1011      36.980  23.945   3.480  1.00 12.84
ATOM  1262  CG  GLN 1011      36.117  24.005   2.270  1.00  6.53
ATOM  1263  CD  GLN 1011      34.713  24.371   2.659  1.00 18.81
ATOM  1264  OE1 GLN 1011      34.490  25.382   3.347  1.00 21.22
ATOM  1265  NE2 GLN 1011      33.760  23.525   2.302  1.00 26.88
ATOM  1268  C   GLN 1011      39.262  23.894   4.394  1.00 18.28
ATOM  1269  O   GLN 1011      39.840  24.982   4.543  1.00 19.80
ATOM  1270  N   VAL 1012      39.270  22.934   5.319  1.00 11.82
ATOM  1272  CA  VAL 1012      40.110  23.063   6.500  1.00 13.54
ATOM  1273  CB  VAL 1012      39.825  21.936   7.528  1.00 15.67
ATOM  1274  CG1 VAL 1012      40.686  22.107   8.795  1.00 10.56
ATOM  1275  CG2 VAL 1012      38.370  21.948   7.901  1.00 14.92
ATOM  1276  C   VAL 1012      41.618  23.068   6.068  1.00 16.72
ATOM  1277  O   VAL 1012      42.448  23.782   6.665  1.00 20.48
ATOM  1278  N   ALA 1013      42.001  22.291   5.051  1.00 15.90
ATOM  1280  CA  ALA 1013      43.401  22.352   4.602  1.00 17.77
ATOM  1281  CB  ALA 1013      43.732  21.206   3.638  1.00 10.59
ATOM  1282  C   ALA 1013      43.685  23.755   3.963  1.00 15.74
ATOM  1283  O   ALA 1013      44.764  24.302   4.139  1.00 17.49
ATOM  1284  N   LYS 1014      42.718  24.342   3.244  1.00 17.18
ATOM  1286  CA  LYS 1014      42.866  25.706   2.665  1.00 15.11
ATOM  1287  CB  LYS 1014      41.557  26.152   2.020  1.00 23.73
ATOM  1288  CG  LYS 1014      41.146  25.474   0.748  1.00 23.57
ATOM  1289  CD  LYS 1014      41.963  26.033  -0.354  1.00 26.38
ATOM  1290  CE  LYS 1014      41.172  25.978  -1.617  1.00 38.71
ATOM  1291  NZ  LYS 1014      42.034  26.404  -2.776  1.00 50.36
ATOM  1295  C   LYS 1014      43.105  26.678   3.823  1.00 11.16
ATOM  1296  O   LYS 1014      44.066  27.452   3.818  1.00 13.85
ATOM  1297  N   GLY 1015      42.210  26.590   4.816  1.00 10.82
ATOM  1299  CA  GLY 1015      42.250  27.403   6.017  1.00 12.48
ATOM  1300  C   GLY 1015      43.584  27.327   6.715  1.00 17.17
ATOM  1301  O   GLY 1015      44.124  28.349   7.130  1.00 19.92
ATOM  1302  N   MET 1016      44.159  26.128   6.763  1.00 17.82
ATOM  1304  CA  MET 1016      45.426  25.927   7.439  1.00 15.78
ATOM  1305  CB  MET 1016      45.516  24.488   7.925  1.00 17.77
ATOM  1306  CG  MET 1016      44.538  24.156   9.057  1.00 15.19
ATOM  1307  SD  MET 1016      44.931  24.991  10.623  1.00 15.49
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FIG. 7(26)

ATOM	1308	CE	MET	1016	46.642	24.894	10.658	1.00	5.63
ATOM	1309	C	MET	1016	46.625	26.321	6.618	1.00	14.62
ATOM	1310	O	MET	1016	47.680	26.667	7.163	1.00	15.76
ATOM	1311	N	GLU	1017	46.487	26.208	5.305	1.00	14.65
ATOM	1313	CA	GLU	1017	47.552	26.608	4.384	1.00	21.43
ATOM	1314	CB	GLU	1017	47.177	26.195	2.947	1.00	21.43
ATOM	1315	CG	GLU	1017	48.162	26.622	1.878	1.00	22.82
ATOM	1316	CD	GLU	1017	47.634	26.421	0.436	1.00	27.12
ATOM	1317	OE1	GLU	1017	46.457	26.769	0.141	1.00	24.95
ATOM	1318	OE2	GLU	1017	48.418	25.927	-0.424	1.00	32.93
ATOM	1319	C	GLU	1017	47.667	28.145	4.535	1.00	18.38
ATOM	1320	O	GLU	1017	48.760	28.668	4.593	1.00	17.43
ATOM	1321	N	PHE	1018	46.526	28.839	4.677	1.00	19.09
ATOM	1323	CA	PHE	1018	46.509	30.295	4.894	1.00	20.74
ATOM	1324	CB	PHE	1018	45.067	30.848	4.870	1.00	27.18
ATOM	1325	CG	PHE	1018	44.942	32.338	5.248	1.00	25.91
ATOM	1326	CD1	PHE	1018	44.477	32.718	6.521	1.00	26.19
ATOM	1327	CD2	PHE	1018	45.300	33.345	4.348	1.00	25.16
ATOM	1328	CE1	PHE	1018	44.381	34.059	6.890	1.00	27.10
ATOM	1329	CE2	PHE	1018	45.208	34.708	4.712	1.00	28.34
ATOM	1330	CZ	PHE	1018	44.754	35.064	5.982	1.00	26.60
ATOM	1331	C	PHE	1018	47.179	30.663	6.216	1.00	18.20
ATOM	1332	O	PHE	1018	48.139	31.430	6.228	1.00	15.08
ATOM	1333	N	LEU	1019	46.676	30.122	7.328	1.00	16.94
ATOM	1335	CA	LEU	1019	47.259	30.414	8.654	1.00	19.44
ATOM	1336	CB	LEU	1019	46.673	29.533	9.754	1.00	22.88
ATOM	1337	CG	LEU	1019	45.238	29.773	10.165	1.00	24.41
ATOM	1338	CD1	LEU	1019	44.956	28.916	11.388	1.00	24.01
ATOM	1339	CD2	LEU	1019	45.084	31.277	10.485	1.00	25.61
ATOM	1340	C	LEU	1019	48.736	30.173	8.660	1.00	19.44
ATOM	1341	O	LEU	1019	49.493	30.896	9.316	1.00	18.98
ATOM	1342	N	ALA	1020	49.135	29.076	8.023	1.00	19.45
ATOM	1344	CA	ALA	1020	50.545	28.747	7.961	1.00	22.29
ATOM	1345	CB	ALA	1020	50.748	27.350	7.397	1.00	21.86
ATOM	1346	C	ALA	1020	51.252	29.829	7.115	1.00	26.13
ATOM	1347	O	ALA	1020	52.348	30.257	7.471	1.00	25.25
ATOM	1348	N	SER	1021	50.600	30.323	6.050	1.00	29.72
ATOM	1350	CA	SER	1021	51.194	31.384	5.219	1.00	27.59
ATOM	1351	CB	SER	1021	50.289	31.754	4.026	1.00	23.95

FIG. 7(27)

ATOM	1352	OG	SER	1021	49.252	32.662	4.349	1.00	22.60
ATOM	1354	C	SER	1021	51.469	32.614	6.109	1.00	32.83
ATOM	1355	O	SER	1021	52.570	33.172	6.073	1.00	36.57
ATOM	1356	N	ARG	1022	50.513	32.957	6.981	1.00	31.88
ATOM	1358	CA	ARG	1022	50.645	34.093	7.901	1.00	22.64
ATOM	1359	CB	ARG	1022	49.294	34.483	8.465	1.00	17.89
ATOM	1360	CG	ARG	1022	48.254	34.691	7.420	1.00	17.72
ATOM	1361	CD	ARG	1022	48.648	35.816	6.468	1.00	18.00
ATOM	1362	NE	ARG	1022	49.714	36.666	6.993	1.00	31.94
ATOM	1364	CZ	ARG	1022	49.625	37.980	7.168	1.00	30.72
ATOM	1365	NH1	ARG	1022	50.653	38.644	7.662	1.00	23.85
ATOM	1368	NH2	ARG	1022	48.508	38.620	6.862	1.00	40.00
ATOM	1371	C	ARG	1022	51.563	33.787	9.056	1.00	24.84
ATOM	1372	O	ARG	1022	51.718	34.612	9.960	1.00	23.27
ATOM	1373	N	LYS	1023	52.115	32.576	9.061	1.00	23.84
ATOM	1375	CA	LYS	1023	53.039	32.137	10.094	1.00	23.59
ATOM	1376	CB	LYS	1023	54.237	33.067	10.196	1.00	22.44
ATOM	1377	C	LYS	1023	52.404	31.899	11.456	1.00	25.21
ATOM	1378	O	LYS	1023	53.054	32.024	12.504	1.00	28.54
ATOM	1379	N	CYS	1024	51.164	31.435	11.411	1.00	20.82
ATOM	1381	CA	CYS	1024	50.404	31.114	12.595	1.00	28.12
ATOM	1382	CB	CYS	1024	48.982	31.709	12.472	1.00	30.32
ATOM	1383	SG	CYS	1024	48.936	33.504	12.847	1.00	33.73
ATOM	1384	C	CYS	1024	50.388	29.576	12.729	1.00	32.20
ATOM	1385	O	CYS	1024	50.636	28.882	11.756	1.00	38.70
ATOM	1386	N	ILE	1025	50.167	29.057	13.934	1.00	30.55
ATOM	1388	CA	ILE	1025	50.123	27.619	14.216	1.00	33.60
ATOM	1389	CB	ILE	1025	51.406	27.169	14.970	1.00	36.10
ATOM	1390	CG2	ILE	1025	51.223	25.807	15.619	1.00	38.88
ATOM	1391	CG1	ILE	1025	52.585	27.121	13.988	1.00	38.38
ATOM	1392	CD1	ILE	1025	53.913	27.422	14.604	1.00	34.51
ATOM	1393	C	ILE	1025	48.891	27.526	15.104	1.00	33.66
ATOM	1394	O	ILE	1025	48.751	28.301	16.034	1.00	41.71
ATOM	1395	N	HIS	1026	47.958	26.643	14.797	1.00	31.27
ATOM	1397	CA	HIS	1026	46.742	26.570	15.589	1.00	27.97
ATOM	1398	CB	HIS	1026	45.691	25.745	14.861	1.00	23.43
ATOM	1399	CG	HIS	1026	44.283	26.091	15.229	1.00	30.06
ATOM	1400	CD2	HIS	1026	43.342	26.801	14.560	1.00	33.43
ATOM	1401	ND1	HIS	1026	43.680	25.659	16.393	1.00	24.53

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FIG. 7(28)

```
ATOM  1403  CE1 HIS 1026      42.428  26.085  16.424  1.00 26.31
ATOM  1404  NE2 HIS 1026      42.199  26.781  15.321  1.00 29.05
ATOM  1406  C   HIS 1026      46.901  26.086  17.036  1.00 30.13
ATOM  1407  O   HIS 1026      46.335  26.681  17.955  1.00 37.96
ATOM  1408  N   ARG 1027      47.662  25.024  17.244  1.00 26.58
ATOM  1410  CA  ARG 1027      47.872  24.429  18.583  1.00 31.87
ATOM  1411  CB  ARG 1027      48.235  25.483  19.666  1.00 20.17
ATOM  1412  C   ARG 1027      46.762  23.449  19.055  1.00 31.55
ATOM  1413  O   ARG 1027      47.047  22.477  19.742  1.00 38.11
ATOM  1414  N   ASP 1028      45.528  23.629  18.597  1.00 30.85
ATOM  1416  CA  ASP 1028      44.466  22.698  18.955  1.00 26.34
ATOM  1417  CB  ASP 1028      43.788  23.098  20.248  1.00 32.60
ATOM  1418  CG  ASP 1028      42.847  22.020  20.755  1.00 35.64
ATOM  1419  OD1 ASP 1028      41.692  22.346  21.096  1.00 36.08
ATOM  1420  OD2 ASP 1028      43.267  20.842  20.790  1.00 40.39
ATOM  1421  C   ASP 1028      43.435  22.565  17.841  1.00 26.23
ATOM  1422  O   ASP 1028      42.276  22.926  17.998  1.00 23.40
ATOM  1423  N   LEU 1029      43.884  22.034  16.708  1.00 24.88
ATOM  1425  CA  LEU 1029      43.053  21.842  15.533  1.00 23.16
ATOM  1426  CB  LEU 1029      43.958  21.772  14.299  1.00 18.78
ATOM  1427  CG  LEU 1029      43.221  21.714  12.965  1.00 20.21
ATOM  1428  CD1 LEU 1029      42.349  22.952  12.812  1.00 15.13
ATOM  1429  CD2 LEU 1029      44.249  21.601  11.827  1.00 22.91
ATOM  1430  C   LEU 1029      42.237  20.562  15.700  1.00 25.25
ATOM  1431  O   LEU 1029      42.765  19.473  15.591  1.00 30.47
ATOM  1432  N   ALA 1030      40.949  20.703  15.957  1.00 25.99
ATOM  1434  CA  ALA 1030      40.062  19.574  16.182  1.00 25.19
ATOM  1435  CB  ALA 1030      39.872  19.387  17.679  1.00 24.55
ATOM  1436  C   ALA 1030      38.761  20.007  15.558  1.00 27.35
ATOM  1437  O   ALA 1030      38.611  21.202  15.302  1.00 33.46
ATOM  1438  N   ALA 1031      37.797  19.094  15.379  1.00 25.19
ATOM  1440  CA  ALA 1031      36.508  19.451  14.752  1.00 22.16
ATOM  1441  CB  ALA 1031      35.772  18.210  14.270  1.00 21.71
ATOM  1442  C   ALA 1031      35.551  20.353  15.536  1.00 20.96
ATOM  1443  O   ALA 1031      34.639  20.950  14.944  1.00 21.36
ATOM  1444  N   ARG 1032      35.712  20.388  16.859  1.00 22.49
ATOM  1446  CA  ARG 1032      34.898  21.246  17.736  1.00 27.01
ATOM  1447  CB  ARG 1032      35.157  20.945  19.220  1.00 25.22
ATOM  1448  CG  ARG 1032      36.534  21.451  19.707  1.00 34.44
ATOM  1449  CD  ARG 1032      37.150  20.503  20.770  1.00 46.39
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FIG. 7(29)

```
ATOM  1450 NE  ARG 1032      38.554  20.752  21.158  1.00 41.28
ATOM  1452 CZ  ARG 1032      39.464  19.799  21.352  1.00 32.28
ATOM  1453 NH1 ARG 1032      40.677  20.129  21.709  1.00 27.74
ATOM  1456 NH2 ARG 1032      39.178  18.524  21.148  1.00 31.24
ATOM  1459 C   ARG 1032      35.296  22.708  17.482  1.00 25.91
ATOM  1460 O   ARG 1032      34.601  23.605  17.935  1.00 30.23
ATOM  1461 N   ASN 1033      36.451  22.911  16.840  1.00 20.90
ATOM  1463 CA  ASN 1033      37.008  24.222  16.495  1.00 15.77
ATOM  1464 CB  ASN 1033      38.497  24.290  16.813  1.00 18.29
ATOM  1465 CG  ASN 1033      38.760  24.160  18.254  1.00 20.60
ATOM  1466 OD1 ASN 1033      37.891  24.445  19.067  1.00 29.84
ATOM  1467 ND2 ASN 1033      39.929  23.677  18.601  1.00 18.08
ATOM  1470 C   ASN 1033      36.839  24.535  15.019  1.00 19.29
ATOM  1471 O   ASN 1033      37.619  25.303  14.450  1.00 17.18
ATOM  1472 N   ILE 1034      35.934  23.822  14.366  1.00 17.56
ATOM  1474 CA  ILE 1034      35.631  24.092  12.972  1.00 17.92
ATOM  1475 CB  ILE 1034      35.813  22.868  12.091  1.00 15.66
ATOM  1476 CG2 ILE 1034      35.364  23.192  10.647  1.00 12.61
ATOM  1477 CG1 ILE 1034      37.247  22.349  12.221  1.00 10.08
ATOM  1478 CD1 ILE 1034      38.312  23.384  11.994  1.00 18.10
ATOM  1479 C   ILE 1034      34.147  24.381  13.075  1.00 21.87
ATOM  1480 O   ILE 1034      33.410  23.592  13.669  1.00 26.72
ATOM  1481 N   LEU 1035      33.711  25.524  12.575  1.00 21.91
ATOM  1483 CA  LEU 1035      32.311  25.883  12.670  1.00 19.45
ATOM  1484 CB  LEU 1035      32.190  27.310  13.181  1.00 18.73
ATOM  1485 CG  LEU 1035      32.102  27.454  14.691  1.00 21.53
ATOM  1486 CD1 LEU 1035      33.019  26.518  15.456  1.00  8.66
ATOM  1487 CD2 LEU 1035      32.391  28.881  15.016  1.00 19.34
ATOM  1488 C   LEU 1035      31.700  25.764  11.316  1.00 20.15
ATOM  1489 O   LEU 1035      32.377  25.977  10.310  1.00 21.51
ATOM  1490 N   LEU 1036      30.429  25.390  11.275  1.00 24.13
ATOM  1492 CA  LEU 1036      29.745  25.237  10.006  1.00 26.96
ATOM  1493 CB  LEU 1036      29.027  23.882   9.909  1.00 20.57
ATOM  1494 CG  LEU 1036      28.149  23.631   8.681  1.00 17.23
ATOM  1495 CD1 LEU 1036      28.877  23.617   7.360  1.00  7.53
ATOM  1496 CD2 LEU 1036      27.566  22.306   8.900  1.00 18.85
ATOM  1497 C   LEU 1036      28.827  26.432   9.755  1.00 31.45
ATOM  1498 O   LEU 1036      27.953  26.794  10.557  1.00 29.93
ATOM  1499 N   SER 1037      29.094  27.061   8.628  1.00 34.52
ATOM  1501 CA  SER 1037      28.410  28.248   8.215  1.00 37.11
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FIG. 7(30)

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ATOM  1502  CB  SER 1037      29.448  29.220   7.632  1.00 41.11
ATOM  1503  OG  SER 1037      28.879  30.439   7.193  1.00 44.80
ATOM  1505  C   SER 1037      27.367  27.890   7.209  1.00 39.39
ATOM  1506  O   SER 1037      27.045  26.735   7.024  1.00 42.14
ATOM  1507  N   GLU 1038      26.884  28.912   6.531  1.00 44.94
ATOM  1509  CA  GLU 1038      25.845  28.806   5.534  1.00 50.37
ATOM  1510  CB  GLU 1038      25.685  30.152   4.792  1.00 56.15
ATOM  1511  CG  GLU 1038      25.599  31.391   5.676  1.00 55.19
ATOM  1512  CD  GLU 1038      24.518  31.270   6.708  1.00 59.42
ATOM  1513  OE1 GLU 1038      23.464  30.637   6.419  1.00 58.62
ATOM  1514  OE2 GLU 1038      24.736  31.806   7.816  1.00 63.52
ATOM  1515  C   GLU 1038      25.954  27.672   4.518  1.00 51.35
ATOM  1516  O   GLU 1038      25.619  26.521   4.816  1.00 57.04
ATOM  1517  N   LYS 1039      26.414  27.997   3.317  1.00 46.28
ATOM  1519  CA  LYS 1039      26.467  27.021   2.251  1.00 43.05
ATOM  1520  CB  LYS 1039      26.455  27.729   0.898  1.00 41.05
ATOM  1521  C   LYS 1039      27.689  26.155   2.401  1.00 44.31
ATOM  1522  O   LYS 1039      28.687  26.358   1.697  1.00 50.06
ATOM  1523  N   ASN 1040      27.611  25.210   3.339  1.00 37.02
ATOM  1525  CA  ASN 1040      28.701  24.283   3.630  1.00 32.65
ATOM  1526  CB  ASN 1040      28.647  23.041   2.761  1.00 31.69
ATOM  1527  CG  ASN 1040      27.641  22.061   3.267  1.00 31.29
ATOM  1528  OD1 ASN 1040      26.740  21.693   2.553  1.00 38.80
ATOM  1529  ND2 ASN 1040      27.749  21.680   4.530  1.00 36.05
ATOM  1532  C   ASN 1040      30.096  24.844   3.656  1.00 28.45
ATOM  1533  O   ASN 1040      31.079  24.162   3.300  1.00 26.00
ATOM  1534  N   VAL 1041      30.174  26.101   4.073  1.00 23.77
ATOM  1536  CA  VAL 1041      31.447  26.739   4.207  1.00 16.56
ATOM  1537  CB  VAL 1041      31.382  28.274   3.940  1.00 16.16
ATOM  1538  CG1 VAL 1041      32.709  28.948   4.315  1.00  8.57
ATOM  1539  CG2 VAL 1041      31.124  28.509   2.470  1.00  6.79
ATOM  1540  C   VAL 1041      31.726  26.382   5.646  1.00 15.50
ATOM  1541  O   VAL 1041      30.825  26.333   6.485  1.00  9.73
ATOM  1542  N   VAL 1042      32.967  26.022   5.883  1.00 18.82
ATOM  1544  CA  VAL 1042      33.431  25.607   7.185  1.00 19.76
ATOM  1545  CB  VAL 1042      33.907  24.110   7.051  1.00 22.19
ATOM  1546  CG1 VAL 1042      35.439  23.993   7.041  1.00 18.66
ATOM  1547  CG2 VAL 1042      33.247  23.242   8.100  1.00 22.95
ATOM  1548  C   VAL 1042      34.580  26.607   7.483  1.00 20.50
ATOM  1549  O   VAL 1042      35.348  26.960   6.575  1.00 17.75
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FIG. 7(31)

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ATOM  1550  N   LYS 1043      34.675  27.082   8.726  1.00 18.30
ATOM  1552  CA  LYS 1043      35.679  28.070   9.103  1.00 17.43
ATOM  1553  CB  LYS 1043      34.977  29.420   9.277  1.00 17.68
ATOM  1554  CG  LYS 1043      34.202  29.845   8.031  1.00 19.19
ATOM  1555  CD  LYS 1043      33.560  31.228   8.186  1.00 26.86
ATOM  1556  CE  LYS 1043      33.270  31.885   6.820  1.00 18.32
ATOM  1557  NZ  LYS 1043      34.353  32.806   6.425  1.00 22.63
ATOM  1561  C   LYS 1043      36.373  27.687  10.399  1.00 18.35
ATOM  1562  O   LYS 1043      35.709  27.235  11.330  1.00 17.37
ATOM  1563  N   ILE 1044      37.692  27.880  10.461  1.00 17.47
ATOM  1565  CA  ILE 1044      38.504  27.558  11.645  1.00 21.49
ATOM  1566  CB  ILE 1044      40.010  27.390  11.267  1.00 20.48
ATOM  1567  CG2 ILE 1044      40.896  27.250  12.502  1.00 15.75
ATOM  1568  CG1 ILE 1044      40.221  26.237  10.300  1.00 14.66
ATOM  1569  CD1 ILE 1044      41.584  26.344   9.669  1.00 12.76
ATOM  1570  C   ILE 1044      38.432  28.735  12.626  1.00 30.73
ATOM  1571  O   ILE 1044      38.370  29.888  12.207  1.00 31.68
ATOM  1572  N   CYS 1045      38.454  28.436  13.918  1.00 38.50
ATOM  1574  CA  CYS 1045      38.437  29.444  14.968  1.00 48.73
ATOM  1575  CB  CYS 1045      37.027  29.586  15.558  1.00 50.35
ATOM  1576  SG  CYS 1045      36.259  28.069  16.173  1.00 59.69
ATOM  1577  C   CYS 1045      39.473  29.041  16.033  1.00 54.63
ATOM  1578  O   CYS 1045      39.981  27.912  15.986  1.00 54.88
ATOM  1579  N   ASP 1046      39.811  29.954  16.956  1.00 64.20
ATOM  1581  CA  ASP 1046      40.816  29.700  18.021  1.00 69.98
ATOM  1582  CB  ASP 1046      40.454  28.407  18.788  1.00 72.94
ATOM  1583  CG  ASP 1046      41.338  28.165  20.009  1.00 75.40
ATOM  1584  OD1 ASP 1046      40.930  28.584  21.110  1.00 77.66
ATOM  1585  OD2 ASP 1046      42.428  27.547  19.878  1.00 75.18
ATOM  1586  C   ASP 1046      42.219  29.580  17.354  1.00 74.21
ATOM  1587  O   ASP 1046      43.183  29.036  17.940  1.00 74.94
ATOM  1588  N   PHE 1047      42.307  30.205  16.171  1.00 75.46
ATOM  1590  CA  PHE 1047      43.462  30.212  15.245  1.00 71.53
ATOM  1591  CB  PHE 1047      42.919  30.267  13.790  1.00 72.10
ATOM  1592  CG  PHE 1047      41.906  31.381  13.526  1.00 71.34
ATOM  1593  CD1 PHE 1047      42.139  32.327  12.526  1.00 74.26
ATOM  1594  CD2 PHE 1047      40.747  31.501  14.284  1.00 69.46
ATOM  1595  CE1 PHE 1047      41.242  33.367  12.293  1.00 70.87
ATOM  1596  CE2 PHE 1047      39.847  32.533  14.066  1.00 67.97
ATOM  1597  CZ  PHE 1047      40.096  33.467  13.068  1.00 71.41
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FIG. 7(32)

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ATOM  1598  C   PHE  1047      44.681  31.163  15.426  1.00 67.78
ATOM  1599  O   PHE  1047      44.507  32.345  15.797  1.00 63.26
ATOM  1601  CB  ASP  1064      29.579  17.003  25.123  1.00 69.86
ATOM  1602  CG  ASP  1064      30.534  16.464  24.050  1.00 69.93
ATOM  1603  OD1 ASP  1064      31.028  15.321  24.179  1.00 71.35
ATOM  1604  OD2 ASP  1064      30.776  17.189  23.063  1.00 71.45
ATOM  1605  C   ASP  1064      31.511  17.821  26.539  1.00 64.90
ATOM  1606  O   ASP  1064      31.512  19.029  26.788  1.00 64.09
ATOM  1609  N   ASP  1064      29.229  17.550  27.534  1.00 67.30
ATOM  1611  CA  ASP  1064      30.204  17.019  26.533  1.00 67.58
ATOM  1612  N   ALA  1065      32.617  17.135  26.278  1.00 61.87
ATOM  1614  CA  ALA  1065      33.932  17.759  26.244  1.00 58.06
ATOM  1615  CB  ALA  1065      34.479  17.935  27.650  1.00 56.61
ATOM  1616  C   ALA  1065      34.888  16.915  25.397  1.00 57.97
ATOM  1617  O   ALA  1065      34.491  15.906  24.788  1.00 56.86
ATOM  1618  N   ARG  1066      36.155  17.313  25.400  1.00 54.64
ATOM  1620  CA  ARG  1066      37.182  16.664  24.607  1.00 50.99
ATOM  1621  CB  ARG  1066      37.538  17.539  23.393  1.00 49.53
ATOM  1622  CG  ARG  1066      36.459  17.608  22.335  1.00 52.76
ATOM  1623  CD  ARG  1066      36.866  16.805  21.125  1.00 57.63
ATOM  1624  NE  ARG  1066      35.847  16.645  20.093  1.00 57.02
ATOM  1626  CZ  ARG  1066      35.976  17.033  18.824  1.00 55.63
ATOM  1627  NH1 ARG  1066      34.984  16.797  17.995  1.00 57.63
ATOM  1630  NH2 ARG  1066      37.046  17.691  18.385  1.00 40.52
ATOM  1633  C   ARG  1066      38.428  16.513  25.427  1.00 49.01
ATOM  1634  O   ARG  1066      38.652  17.274  26.364  1.00 46.29
ATOM  1635  N   LEU  1067      39.251  15.546  25.041  1.00 46.48
ATOM  1637  CA  LEU  1067      40.510  15.320  25.709  1.00 45.62
ATOM  1638  CB  LEU  1067      40.703  13.840  26.073  1.00 45.53
ATOM  1639  CG  LEU  1067      41.335  13.519  27.441  1.00 44.07
ATOM  1640  CD1 LEU  1067      42.236  12.322  27.273  1.00 37.52
ATOM  1641  CD2 LEU  1067      42.109  14.710  28.057  1.00 39.60
ATOM  1642  C   LEU  1067      41.530  15.778  24.677  1.00 42.00
ATOM  1643  O   LEU  1067      41.983  15.010  23.832  1.00 41.05
ATOM  1644  N   PRO  1068      41.854  17.072  24.698  1.00 41.22
ATOM  1645  CD  PRO  1068      41.265  18.104  25.584  1.00 34.16
ATOM  1646  CA  PRO  1068      42.817  17.661  23.761  1.00 38.41
ATOM  1647  CB  PRO  1068      42.919  19.104  24.277  1.00 36.08
ATOM  1648  CG  PRO  1068      41.496  19.355  24.828  1.00 29.23
ATOM  1649  C   PRO  1068      44.197  16.961  23.571  1.00 35.36
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FIG. 7(33)

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ATOM  1650  O   PRO 1068      44.932  17.258  22.623  1.00 37.80
ATOM  1651  N   LEU 1069      44.552  16.040  24.455  1.00 33.98
ATOM  1653  CA  LEU 1069      45.829  15.337  24.333  1.00 35.06
ATOM  1654  CB  LEU 1069      46.092  14.517  25.601  1.00 37.80
ATOM  1655  CG  LEU 1069      47.228  13.497  25.488  1.00 40.67
ATOM  1656  CD1 LEU 1069      48.599  14.156  25.752  1.00 36.35
ATOM  1657  CD2 LEU 1069      46.939  12.333  26.445  1.00 40.75
ATOM  1658  C   LEU 1069      45.776  14.397  23.121  1.00 34.16
ATOM  1659  O   LEU 1069      46.787  14.115  22.461  1.00 32.14
ATOM  1660  N   LYS 1070      44.571  13.916  22.859  1.00 28.95
ATOM  1662  CA  LYS 1070      44.280  13.014  21.765  1.00 28.17
ATOM  1663  CB  LYS 1070      42.828  12.569  21.911  1.00 22.17
ATOM  1664  CG  LYS 1070      42.553  11.730  23.144  1.00 22.02
ATOM  1665  CD  LYS 1070      41.085  11.317  23.107  1.00 24.17
ATOM  1666  CE  LYS 1070      40.851   9.908  23.646  1.00 29.35
ATOM  1667  NZ  LYS 1070      39.444   9.436  23.439  1.00 35.82
ATOM  1671  C   LYS 1070      44.518  13.582  20.340  1.00 29.26
ATOM  1672  O   LYS 1070      44.368  12.867  19.344  1.00 27.81
ATOM  1673  N   TRP 1071      44.862  14.865  20.260  1.00 27.00
ATOM  1675  CA  TRP 1071      45.086  15.550  18.995  1.00 27.37
ATOM  1676  CB  TRP 1071      44.191  16.827  18.882  1.00 20.67
ATOM  1677  CG  TRP 1071      42.724  16.551  18.545  1.00 20.12
ATOM  1678  CD2 TRP 1071      41.685  16.138  19.451  1.00 17.97
ATOM  1679  CE2 TRP 1071      40.524  15.892  18.675  1.00 13.02
ATOM  1680  CE3 TRP 1071      41.628  15.944  20.838  1.00 23.76
ATOM  1681  CD1 TRP 1071      42.153  16.560  17.304  1.00 19.50
ATOM  1682  NE1 TRP 1071      40.834  16.155  17.373  1.00 13.62
ATOM  1684  CZ2 TRP 1071      39.342  15.465  19.233  1.00 16.22
ATOM  1685  CZ3 TRP 1071      40.439  15.511  21.396  1.00 20.67
ATOM  1686  CH2 TRP 1071      39.321  15.273  20.594  1.00 19.47
ATOM  1687  C   TRP 1071      46.523  15.961  18.889  1.00 26.26
ATOM  1688  O   TRP 1071      46.948  16.465  17.842  1.00 28.70
ATOM  1689  N   MET 1072      47.278  15.713  19.959  1.00 24.85
ATOM  1691  CA  MET 1072      48.676  16.119  20.034  1.00 22.67
ATOM  1692  CB  MET 1072      49.066  16.317  21.487  1.00 31.30
ATOM  1693  CG  MET 1072      48.328  17.416  22.229  1.00 34.64
ATOM  1694  SD  MET 1072      48.977  17.610  23.948  1.00 35.65
ATOM  1695  CE  MET 1072      50.667  17.842  23.669  1.00 27.97
ATOM  1696  C   MET 1072      49.697  15.215  19.388  1.00 25.43
ATOM  1697  O   MET 1072      49.798  14.029  19.729  1.00 21.51
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PCT/US98/26850

FIG. 7(34)

ATOM	1698	N	ALA	1073	50.545	15.800	18.547	1.00	25.55
ATOM	1700	CA	ALA	1073	51.571	15.024	17.874	1.00	29.80
ATOM	1701	CB	ALA	1073	52.369	15.912	16.958	1.00	22.65
ATOM	1702	C	ALA	1073	52.448	14.453	18.989	1.00	34.88
ATOM	1703	O	ALA	1073	52.431	14.970	20.115	1.00	39.38
ATOM	1704	N	PRO	1074	53.183	13.355	18.724	1.00	36.01
ATOM	1705	CD	PRO	1074	53.087	12.450	17.570	1.00	31.55
ATOM	1706	CA	PRO	1074	54.040	12.771	19.769	1.00	36.24
ATOM	1707	CB	PRO	1074	54.544	11.485	19.115	1.00	34.34
ATOM	1708	CG	PRO	1074	53.415	11.137	18.193	1.00	31.88
ATOM	1709	C	PRO	1074	55.189	13.670	20.288	1.00	37.13
ATOM	1710	O	PRO	1074	55.570	13.575	21.447	1.00	34.58
ATOM	1711	N	GLU	1075	55.746	14.533	19.440	1.00	37.40
ATOM	1713	CA	GLU	1075	56.813	15.422	19.884	1.00	40.62
ATOM	1714	CB	GLU	1075	57.598	15.990	18.707	1.00	33.55
ATOM	1715	CG	GLU	1075	56.853	16.957	17.844	1.00	39.40
ATOM	1716	CD	GLU	1075	55.952	16.300	16.828	1.00	43.14
ATOM	1717	OE1	GLU	1075	55.965	15.055	16.720	1.00	49.09
ATOM	1718	OE2	GLU	1075	55.228	17.040	16.124	1.00	44.63
ATOM	1719	C	GLU	1075	56.239	16.546	20.757	1.00	42.73
ATOM	1720	O	GLU	1075	56.903	17.061	21.639	1.00	44.76
ATOM	1721	N	THR	1076	54.982	16.888	20.524	1.00	46.13
ATOM	1723	CA	THR	1076	54.304	17.923	21.283	1.00	46.22
ATOM	1724	CB	THR	1076	52.991	18.319	20.605	1.00	43.95
ATOM	1725	OG1	THR	1076	53.245	18.666	19.230	1.00	46.46
ATOM	1727	CG2	THR	1076	52.361	19.481	21.334	1.00	43.93
ATOM	1728	C	THR	1076	53.991	17.378	22.662	1.00	47.62
ATOM	1729	O	THR	1076	54.175	18.057	23.650	1.00	52.45
ATOM	1730	N	ILE	1077	53.442	16.173	22.717	1.00	47.96
ATOM	1732	CA	ILE	1077	53.123	15.528	23.980	1.00	46.99
ATOM	1733	CB	ILE	1077	52.496	14.151	23.720	1.00	46.43
ATOM	1734	CG2	ILE	1077	52.691	13.232	24.895	1.00	46.16
ATOM	1735	CG1	ILE	1077	51.024	14.306	23.384	1.00	44.29
ATOM	1736	CD1	ILE	1077	50.336	13.010	23.163	1.00	46.43
ATOM	1737	C	ILE	1077	54.418	15.345	24.767	1.00	51.37
ATOM	1738	O	ILE	1077	54.473	15.577	25.974	1.00	52.53
ATOM	1739	N	PHE	1078	55.458	14.931	24.058	1.00	53.41
ATOM	1741	CA	PHE	1078	56.750	14.696	24.672	1.00	58.94
ATOM	1742	CB	PHE	1078	57.506	13.570	23.925	1.00	60.74
ATOM	1743	CG	PHE	1078	56.901	12.184	24.124	1.00	57.84

DOCKET ALARM

FIG. 7(35)

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ATOM  1744  CD1 PHE  1078      56.068  11.612  23.169  1.00 54.09
ATOM  1745  CD2 PHE  1078      57.127  11.483  25.298  1.00 58.64
ATOM  1746  CE1 PHE  1078      55.478  10.380  23.381  1.00 53.82
ATOM  1747  CE2 PHE  1078      56.539  10.254  25.514  1.00 57.20
ATOM  1748  CZ  PHE  1078      55.711   9.703  24.555  1.00 55.07
ATOM  1749  C   PHE  1078      57.574  15.981  24.767  1.00 63.98
ATOM  1750  O   PHE  1078      57.433  16.738  25.736  1.00 67.06
ATOM  1751  N   ASP  1079      58.356  16.274  23.724  1.00 66.97
ATOM  1753  CA  ASP  1079      59.215  17.472  23.678  1.00 68.09
ATOM  1754  CB  ASP  1079      60.225  17.402  22.501  1.00 66.89
ATOM  1755  CG  ASP  1079      60.174  16.082  21.714  1.00 69.02
ATOM  1756  OD1 ASP  1079      60.254  16.156  20.474  1.00 71.23
ATOM  1757  OD2 ASP  1079      60.089  14.980  22.308  1.00 69.71
ATOM  1758  C   ASP  1079      58.434  18.806  23.599  1.00 67.74
ATOM  1759  O   ASP  1079      59.011  19.848  23.266  1.00 66.85
ATOM  1760  N   ARG  1080      57.137  18.747  23.926  1.00 68.20
ATOM  1762  CA  ARG  1080      56.173  19.858  23.898  1.00 66.60
ATOM  1763  CB  ARG  1080      55.997  20.496  25.279  1.00 67.64
ATOM  1764  CG  ARG  1080      54.529  20.758  25.638  1.00 71.26
ATOM  1765  CD  ARG  1080      53.823  19.481  26.096  1.00 73.66
ATOM  1766  NE  ARG  1080      52.364  19.610  26.226  1.00 75.75
ATOM  1768  CZ  ARG  1080      51.642  18.981  27.157  1.00 74.86
ATOM  1769  NH1 ARG  1080      50.321  19.134  27.211  1.00 69.96
ATOM  1772  NH2 ARG  1080      52.247  18.212  28.060  1.00 72.78
ATOM  1775  C   ARG  1080      56.305  20.920  22.801  1.00 63.93
ATOM  1776  O   ARG  1080      55.861  22.069  22.955  1.00 61.93
ATOM  1777  N   VAL  1081      56.863  20.510  21.667  1.00 61.30
ATOM  1779  CA  VAL  1081      57.034  21.413  20.545  1.00 58.53
ATOM  1780  CB  VAL  1081      58.202  20.951  19.584  1.00 60.54
ATOM  1781  CG1 VAL  1081      59.304  20.266  20.370  1.00 62.35
ATOM  1782  CG2 VAL  1081      57.701  20.043  18.455  1.00 55.04
ATOM  1783  C   VAL  1081      55.713  21.481  19.771  1.00 56.90
ATOM  1784  O   VAL  1081      55.052  20.452  19.560  1.00 57.43
ATOM  1785  N   TYR  1082      55.287  22.699  19.435  1.00 51.51
ATOM  1787  CA  TYR  1082      54.078  22.909  18.641  1.00 41.08
ATOM  1788  CB  TYR  1082      53.092  23.847  19.332  1.00 37.59
ATOM  1789  CG  TYR  1082      52.275  23.238  20.442  1.00 32.41
ATOM  1790  CD1 TYR  1082      52.800  23.135  21.721  1.00 38.13
ATOM  1791  CE1 TYR  1082      52.043  22.663  22.781  1.00 38.73
ATOM  1792  CD2 TYR  1082      50.961  22.843  20.234  1.00 27.91
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FIG. 7(36)

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ATOM  1793  CE2 TYR 1082      50.189  22.374  21.287  1.00 33.59
ATOM  1794  CZ  TYR 1082      50.739  22.290  22.572  1.00 36.82
ATOM  1795  OH  TYR 1082      50.001  21.874  23.679  1.00 39.60
ATOM  1797  C   TYR 1082      54.591  23.598  17.410  1.00 34.81
ATOM  1798  O   TYR 1082      55.240  24.608  17.545  1.00 33.62
ATOM  1799  N   THR 1083      54.394  22.997  16.236  1.00 34.71
ATOM  1801  CA  THR 1083      54.819  23.573  14.946  1.00 30.90
ATOM  1802  CB  THR 1083      56.106  22.894  14.384  1.00 29.46
ATOM  1803  OG1 THR 1083      55.789  21.598  13.837  1.00 30.18
ATOM  1805  CG2 THR 1083      57.159  22.768  15.486  1.00 21.74
ATOM  1806  C   THR 1083      53.678  23.371  13.946  1.00 27.79
ATOM  1807  O   THR 1083      52.651  22.777  14.293  1.00 28.80
ATOM  1808  N   ILE 1084      53.804  23.869  12.721  1.00 24.37
ATOM  1810  CA  ILE 1084      52.700  23.615  11.797  1.00 27.69
ATOM  1811  CB  ILE 1084      52.739  24.381  10.465  1.00 28.65
ATOM  1812  CG2 ILE 1084      51.450  25.166  10.284  1.00 29.19
ATOM  1813  CG1 ILE 1084      53.977  25.259  10.361  1.00 37.75
ATOM  1814  CD1 ILE 1084      55.235  24.517   9.985  1.00 46.61
ATOM  1815  C   ILE 1084      52.689  22.143  11.459  1.00 26.44
ATOM  1816  O   ILE 1084      51.627  21.589  11.173  1.00 24.29
ATOM  1817  N   GLN 1085      53.861  21.507  11.518  1.00 25.11
ATOM  1819  CA  GLN 1085      53.920  20.097  11.188  1.00 24.39
ATOM  1820  CB  GLN 1085      55.315  19.612  10.823  1.00 27.61
ATOM  1821  CG  GLN 1085      55.753  20.012   9.411  1.00 33.25
ATOM  1822  CD  GLN 1085      54.653  19.826   8.347  1.00 34.07
ATOM  1823  OE1 GLN 1085      53.943  20.779   8.004  1.00 41.60
ATOM  1824  NE2 GLN 1085      54.546  18.632   7.797  1.00 28.88
ATOM  1827  C   GLN 1085      53.296  19.267  12.258  1.00 23.23
ATOM  1828  O   GLN 1085      52.900  18.141  11.981  1.00 25.97
ATOM  1829  N   SER 1086      53.195  19.798  13.480  1.00 20.86
ATOM  1831  CA  SER 1086      52.488  19.040  14.507  1.00 18.08
ATOM  1832  CB  SER 1086      53.044  19.256  15.926  1.00 20.91
ATOM  1833  OG  SER 1086      52.870  20.559  16.440  1.00 21.60
ATOM  1835  C   SER 1086      50.962  19.336  14.353  1.00 20.67
ATOM  1836  O   SER 1086      50.138  18.531  14.806  1.00 13.79
ATOM  1837  N   ASP 1087      50.602  20.415  13.609  1.00 18.68
ATOM  1839  CA  ASP 1087      49.190  20.793  13.324  1.00 11.08
ATOM  1840  CB  ASP 1087      49.038  22.249  12.805  1.00 21.08
ATOM  1841  CG  ASP 1087      48.845  23.287  13.920  1.00 23.79
ATOM  1842  OD1 ASP 1087      49.348  24.407  13.745  1.00 31.01
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FIG. 7(37)

ATOM	1843	OD2	ASP	1087	48.212	23.013	14.967	1.00	28.91
ATOM	1844	C	ASP	1087	48.632	19.860	12.261	1.00	11.16
ATOM	1845	O	ASP	1087	47.406	19.640	12.177	1.00	12.65
ATOM	1846	N	VAL	1088	49.520	19.390	11.390	1.00	9.61
ATOM	1848	CA	VAL	1088	49.181	18.404	10.345	1.00	13.37
ATOM	1849	CB	VAL	1088	50.351	18.195	9.389	1.00	15.40
ATOM	1850	CG1	VAL	1088	50.057	17.067	8.486	1.00	14.68
ATOM	1851	CG2	VAL	1088	50.609	19.477	8.587	1.00	10.67
ATOM	1852	C	VAL	1088	48.839	17.061	11.014	1.00	13.67
ATOM	1853	O	VAL	1088	47.897	16.387	10.618	1.00	15.00
ATOM	1854	N	TRP	1089	49.618	16.668	12.015	1.00	12.30
ATOM	1856	CA	TRP	1089	49.301	15.460	12.748	1.00	12.96
ATOM	1857	CB	TRP	1089	50.236	15.279	13.960	1.00	16.98
ATOM	1858	CG	TRP	1089	49.764	14.195	14.887	1.00	18.14
ATOM	1859	CD2	TRP	1089	50.325	12.884	15.031	1.00	18.48
ATOM	1860	CE2	TRP	1089	49.476	12.162	15.893	1.00	20.05
ATOM	1861	CE3	TRP	1089	51.460	12.245	14.503	1.00	22.61
ATOM	1862	CD1	TRP	1089	48.640	14.215	15.657	1.00	18.89
ATOM	1863	NE1	TRP	1089	48.451	12.995	16.255	1.00	19.54
ATOM	1865	CZ2	TRP	1089	49.725	10.839	16.249	1.00	20.08
ATOM	1866	CZ3	TRP	1089	51.709	10.927	14.855	1.00	17.00
ATOM	1867	CH2	TRP	1089	50.846	10.243	15.722	1.00	23.71
ATOM	1868	C	TRP	1089	47.873	15.711	13.207	1.00	14.68
ATOM	1869	O	TRP	1089	46.987	14.958	12.842	1.00	20.33
ATOM	1870	N	SER	1090	47.636	16.823	13.923	1.00	18.59
ATOM	1872	CA	SER	1090	46.287	17.209	14.413	1.00	15.54
ATOM	1873	CB	SER	1090	46.297	18.603	15.043	1.00	12.20
ATOM	1874	OG	SER	1090	47.066	18.621	16.237	1.00	18.86
ATOM	1876	C	SER	1090	45.256	17.190	13.309	1.00	16.50
ATOM	1877	O	SER	1090	44.128	16.691	13.487	1.00	18.14
ATOM	1878	N	PHE	1091	45.635	17.745	12.158	1.00	23.35
ATOM	1880	CA	PHE	1091	44.746	17.776	10.997	1.00	20.78
ATOM	1881	CB	PHE	1091	45.445	18.399	9.786	1.00	17.07
ATOM	1882	CG	PHE	1091	44.533	18.524	8.598	1.00	21.98
ATOM	1883	CD1	PHE	1091	43.396	19.347	8.666	1.00	17.34
ATOM	1884	CD2	PHE	1091	44.740	17.754	7.460	1.00	19.42
ATOM	1885	CE1	PHE	1091	42.485	19.398	7.641	1.00	15.43
ATOM	1886	CE2	PHE	1091	43.829	17.792	6.421	1.00	18.06
ATOM	1887	CZ	PHE	1091	42.693	18.618	6.509	1.00	19.76
ATOM	1888	C	PHE	1091	44.306	16.332	10.667	1.00	17.25

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FIG. 7(38)

ATOM	1889	O	PHE	1091	43.147	16.077	10.334	1.00	15.79
ATOM	1890	N	GLY	1092	45.258	15.408	10.812	1.00	19.49
ATOM	1892	CA	GLY	1092	45.042	13.988	10.577	1.00	18.11
ATOM	1893	C	GLY	1092	44.029	13.429	11.544	1.00	19.35
ATOM	1894	O	GLY	1092	43.235	12.581	11.137	1.00	24.23
ATOM	1895	N	VAL	1093	44.073	13.836	12.819	1.00	18.53
ATOM	1897	CA	VAL	1093	43.055	13.392	13.788	1.00	20.09
ATOM	1898	CB	VAL	1093	43.389	13.752	15.298	1.00	15.18
ATOM	1899	CG1	VAL	1093	42.421	13.051	16.187	1.00	17.08
ATOM	1900	CG2	VAL	1093	44.778	13.310	15.698	1.00	11.27
ATOM	1901	C	VAL	1093	41.661	13.971	13.376	1.00	22.42
ATOM	1902	O	VAL	1093	40.649	13.253	13.396	1.00	26.19
ATOM	1903	N	LEU	1094	41.618	15.235	12.938	1.00	23.95
ATOM	1905	CA	LEU	1094	40.363	15.893	12.484	1.00	19.63
ATOM	1906	CB	LEU	1094	40.667	17.338	12.050	1.00	25.24
ATOM	1907	CG	LEU	1094	39.587	18.420	11.974	1.00	27.30
ATOM	1908	CD1	LEU	1094	40.136	19.497	11.113	1.00	28.26
ATOM	1909	CD2	LEU	1094	38.265	17.929	11.385	1.00	27.54
ATOM	1910	C	LEU	1094	39.775	15.146	11.280	1.00	16.12
ATOM	1911	O	LEU	1094	38.555	15.002	11.129	1.00	16.14
ATOM	1912	N	LEU	1095	40.631	14.766	10.348	1.00	16.30
ATOM	1914	CA	LEU	1095	40.155	14.003	9.195	1.00	17.98
ATOM	1915	CB	LEU	1095	41.321	13.538	8.317	1.00	16.52
ATOM	1916	CG	LEU	1095	41.981	14.536	7.386	1.00	14.88
ATOM	1917	CD1	LEU	1095	42.807	13.734	6.399	1.00	11.81
ATOM	1918	CD2	LEU	1095	40.931	15.401	6.639	1.00	21.08
ATOM	1919	C	LEU	1095	39.437	12.770	9.722	1.00	17.52
ATOM	1920	O	LEU	1095	38.324	12.448	9.270	1.00	16.23
ATOM	1921	N	TRP	1096	40.077	12.105	10.697	1.00	14.50
ATOM	1923	CA	TRP	1096	39.509	10.916	11.304	1.00	14.02
ATOM	1924	CB	TRP	1096	40.452	10.330	12.337	1.00	13.21
ATOM	1925	CG	TRP	1096	40.010	8.992	12.850	1.00	18.93
ATOM	1926	CD2	TRP	1096	39.016	8.732	13.856	1.00	24.77
ATOM	1927	CE2	TRP	1096	38.952	7.319	14.020	1.00	27.07
ATOM	1928	CE3	TRP	1096	38.178	9.546	14.647	1.00	29.39
ATOM	1929	CD1	TRP	1096	40.483	7.781	12.460	1.00	21.28
ATOM	1930	NE1	TRP	1096	39.854	6.770	13.154	1.00	18.61
ATOM	1932	CZ2	TRP	1096	38.075	6.700	14.954	1.00	28.21
ATOM	1933	CZ3	TRP	1096	37.303	8.927	15.581	1.00	29.42
ATOM	1934	CH2	TRP	1096	37.266	7.511	15.719	1.00	27.60

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FIG. 7(39)

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ATOM  1935  C   TRP 1096      38.159  11.236  11.927  1.00 18.94
ATOM  1936  O   TRP 1096      37.212  10.439  11.826  1.00 22.31
ATOM  1937  N   GLU 1097      38.046  12.385  12.592  1.00 23.97
ATOM  1939  CA  GLU 1097      36.754  12.750  13.195  1.00 21.61
ATOM  1940  CB  GLU 1097      36.823  14.012  14.041  1.00 26.60
ATOM  1941  CG  GLU 1097      37.880  14.065  15.109  1.00 21.55
ATOM  1942  CD  GLU 1097      37.795  15.380  15.800  1.00 23.56
ATOM  1943  OE1 GLU 1097      36.726  15.591  16.393  1.00 21.97
ATOM  1944  OE2 GLU 1097      38.741  16.208  15.706  1.00 20.79
ATOM  1945  C   GLU 1097      35.744  13.010  12.116  1.00 19.15
ATOM  1946  O   GLU 1097      34.549  12.766  12.304  1.00 28.35
ATOM  1947  N   ILE 1098      36.190  13.565  11.001  1.00 17.99
ATOM  1949  CA  ILE 1098      35.244  13.821   9.915  1.00 17.98
ATOM  1950  CB  ILE 1098      35.862  14.650   8.732  1.00 13.59
ATOM  1951  CG2 ILE 1098      34.880  14.725   7.568  1.00 13.47
ATOM  1952  CG1 ILE 1098      36.169  16.074   9.181  1.00 11.46
ATOM  1953  CD1 ILE 1098      36.691  16.960   8.074  1.00  9.72
ATOM  1954  C   ILE 1098      34.645  12.529   9.372  1.00 16.07
ATOM  1955  O   ILE 1098      33.444  12.445   9.171  1.00 18.22
ATOM  1956  N   PHE 1099      35.460  11.499   9.171  1.00 20.11
ATOM  1958  CA  PHE 1099      34.925  10.257   8.601  1.00 18.95
ATOM  1959  CB  PHE 1099      35.909   9.660   7.625  1.00 16.86
ATOM  1960  CG  PHE 1099      36.269  10.584   6.517  1.00 12.61
ATOM  1961  CD1 PHE 1099      37.308  11.468   6.671  1.00 14.37
ATOM  1962  CD2 PHE 1099      35.522  10.624   5.362  1.00 18.03
ATOM  1963  CE1 PHE 1099      37.595  12.369   5.717  1.00 13.66
ATOM  1964  CE2 PHE 1099      35.811  11.553   4.378  1.00 16.05
ATOM  1965  CZ  PHE 1099      36.843  12.418   4.568  1.00 17.86
ATOM  1966  C   PHE 1099      34.368   9.201   9.551  1.00 23.18
ATOM  1967  O   PHE 1099      34.111   8.070   9.149  1.00 22.90
ATOM  1968  N   SER 1100      34.274   9.553  10.825  1.00 26.68
ATOM  1970  CA  SER 1100      33.652   8.690  11.820  1.00 24.51
ATOM  1971  CB  SER 1100      34.504   8.572  13.079  1.00 25.60
ATOM  1972  OG  SER 1100      34.826   9.842  13.625  1.00 29.76
ATOM  1974  C   SER 1100      32.398   9.465  12.145  1.00 26.92
ATOM  1975  O   SER 1100      31.765   9.211  13.157  1.00 31.32
ATOM  1976  N   LEU 1101      32.018  10.387  11.251  1.00 28.15
ATOM  1978  CA  LEU 1101      30.860  11.241  11.453  1.00 24.97
ATOM  1979  CB  LEU 1101      29.556  10.557  11.015  1.00 22.00
ATOM  1980  CG  LEU 1101      29.423  10.410   9.495  1.00 25.66
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FIG. 7(40)

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ATOM  1981  CD1 LEU 1101      28.060   9.866   9.127  1.00 22.23
ATOM  1982  CD2 LEU 1101      29.632  11.768   8.829  1.00 32.30
ATOM  1983  C   LEU 1101      30.771  11.779  12.888  1.00 26.64
ATOM  1984  O   LEU 1101      29.793  11.552  13.580  1.00 31.34
ATOM  1985  N   GLY 1102      31.828  12.446  13.336  1.00 24.93
ATOM  1987  CA  GLY 1102      31.836  13.057  14.650  1.00 28.61
ATOM  1988  C   GLY 1102      32.129  12.293  15.917  1.00 32.38
ATOM  1989  O   GLY 1102      31.647  12.693  16.950  1.00 35.69
ATOM  1990  N   ALA 1103      33.004  11.291  15.876  1.00 35.95
ATOM  1992  CA  ALA 1103      33.354  10.500  17.060  1.00 31.27
ATOM  1993  CB  ALA 1103      33.515   9.041  16.672  1.00 36.15
ATOM  1994  C   ALA 1103      34.625  10.972  17.747  1.00 34.29
ATOM  1995  O   ALA 1103      35.382  11.788  17.190  1.00 36.92
ATOM  1996  N   SER 1104      34.886  10.417  18.934  1.00 33.11
ATOM  1998  CA  SER 1104      36.087  10.744  19.715  1.00 35.13
ATOM  1999  CB  SER 1104      35.906  10.422  21.207  1.00 38.40
ATOM  2000  OG  SER 1104      34.719  10.964  21.765  1.00 50.36
ATOM  2002  C   SER 1104      37.216   9.852  19.249  1.00 34.54
ATOM  2003  O   SER 1104      37.039   8.640  19.167  1.00 33.44
ATOM  2004  N   PRO 1105      38.395  10.434  18.963  1.00 32.93
ATOM  2005  CD  PRO 1105      38.678  11.877  18.972  1.00 31.54
ATOM  2006  CA  PRO 1105      39.571   9.693  18.513  1.00 29.88
ATOM  2007  CB  PRO 1105      40.633  10.781  18.465  1.00 22.24
ATOM  2008  CG  PRO 1105      39.883  11.965  18.079  1.00 28.04
ATOM  2009  C   PRO 1105      39.919   8.659  19.582  1.00 32.54
ATOM  2010  O   PRO 1105      39.480   8.795  20.731  1.00 28.79
ATOM  2011  N   TYR 1106      40.700   7.648  19.196  1.00 34.52
ATOM  2013  CA  TYR 1106      41.148   6.564  20.085  1.00 39.62
ATOM  2014  CB  TYR 1106      42.374   6.994  20.896  1.00 37.66
ATOM  2015  CG  TYR 1106      43.496   7.566  20.059  1.00 39.50
ATOM  2016  CD1 TYR 1106      43.690   8.957  19.976  1.00 37.50
ATOM  2017  CE1 TYR 1106      44.655   9.518  19.143  1.00 35.61
ATOM  2018  CD2 TYR 1106      44.315   6.739  19.293  1.00 34.54
ATOM  2019  CE2 TYR 1106      45.305   7.290  18.446  1.00 38.80
ATOM  2020  CZ  TYR 1106      45.466   8.686  18.373  1.00 38.23
ATOM  2021  OH  TYR 1106      46.412   9.240  17.520  1.00 31.37
ATOM  2023  C   TYR 1106      40.022   6.128  21.016  1.00 47.24
ATOM  2024  O   TYR 1106      40.100   6.296  22.247  1.00 46.94
ATOM  2025  N   PRO 1107      38.947   5.570  20.431  1.00 52.30
ATOM  2026  CD  PRO 1107      38.880   5.234  18.996  1.00 52.76
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FIG. 7(41)

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ATOM  2027  CA  PRO 1107      37.750   5.088  21.125  1.00 55.67
ATOM  2028  CB  PRO 1107      37.078   4.223  20.066  1.00 55.09
ATOM  2029  CG  PRO 1107      37.420   4.931  18.797  1.00 52.62
ATOM  2030  C   PRO 1107      38.035   4.300  22.408  1.00 60.55
ATOM  2031  O   PRO 1107      38.668   3.231  22.377  1.00 60.88
ATOM  2032  N   GLY 1108      37.631   4.894  23.533  1.00 62.85
ATOM  2034  CA  GLY 1108      37.790   4.284  24.845  1.00 63.10
ATOM  2035  C   GLY 1108      39.171   3.783  25.228  1.00 61.44
ATOM  2036  O   GLY 1108      39.319   3.010  26.178  1.00 63.49
ATOM  2037  N   VAL 1109      40.181   4.228  24.498  1.00 58.31
ATOM  2039  CA  VAL 1109      41.548   3.835  24.766  1.00 55.54
ATOM  2040  CB  VAL 1109      42.430   4.181  23.580  1.00 54.11
ATOM  2041  CG1 VAL 1109      43.857   3.787  23.857  1.00 51.33
ATOM  2042  CG2 VAL 1109      41.875   3.528  22.306  1.00 54.09
ATOM  2043  C   VAL 1109      42.006   4.657  25.949  1.00 57.04
ATOM  2044  O   VAL 1109      41.492   5.749  26.163  1.00 57.18
ATOM  2045  N   LYS 1110      42.969   4.140  26.711  1.00 59.43
ATOM  2047  CA  LYS 1110      43.497   4.849  27.880  1.00 60.27
ATOM  2048  CB  LYS 1110      43.928   3.842  28.936  1.00 63.70
ATOM  2049  C   LYS 1110      44.664   5.796  27.538  1.00 60.52
ATOM  2050  O   LYS 1110      45.570   5.410  26.780  1.00 61.06
ATOM  2051  N   ILE 1111      44.665   7.006  28.115  1.00 58.79
ATOM  2053  CA  ILE 1111      45.732   7.987  27.859  1.00 60.01
ATOM  2054  CB  ILE 1111      45.236   9.441  27.886  1.00 63.41
ATOM  2055  CG2 ILE 1111      44.517   9.798  26.596  1.00 58.31
ATOM  2056  CG1 ILE 1111      44.413   9.688  29.145  1.00 69.87
ATOM  2057  CD1 ILE 1111      44.341  11.144  29.528  1.00 75.64
ATOM  2058  C   ILE 1111      46.949   7.891  28.781  1.00 58.91
ATOM  2059  O   ILE 1111      47.670   8.862  28.992  1.00 59.56
ATOM  2060  N   ASP 1112      47.187   6.697  29.299  1.00 60.43
ATOM  2062  CA  ASP 1112      48.312   6.407  30.173  1.00 56.25
ATOM  2063  CB  ASP 1112      48.318   4.919  30.421  1.00 59.88
ATOM  2064  CG  ASP 1112      48.273   4.131  29.122  1.00 67.87
ATOM  2065  OD1 ASP 1112      47.179   3.893  28.564  1.00 71.34
ATOM  2066  OD2 ASP 1112      49.348   3.765  28.628  1.00 72.11
ATOM  2067  C   ASP 1112      49.612   6.795  29.489  1.00 54.37
ATOM  2068  O   ASP 1112      49.634   7.066  28.284  1.00 50.67
ATOM  2069  N   GLU 1113      50.710   6.741  30.236  1.00 55.36
ATOM  2071  CA  GLU 1113      52.024   7.089  29.683  1.00 55.99
ATOM  2072  CB  GLU 1113      53.051   7.374  30.806  1.00 58.69
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FIG. 7(42)

ATOM	2073	C	GLU	1113	52.552	6.015	28.726	1.00	54.42
ATOM	2074	O	GLU	1113	53.624	6.175	28.126	1.00	51.91
ATOM	2075	N	GLU	1114	51.822	4.903	28.627	1.00	51.54
ATOM	2077	CA	GLU	1114	52.192	3.819	27.719	1.00	54.36
ATOM	2078	CB	GLU	1114	51.873	2.452	28.322	1.00	56.43
ATOM	2079	CG	GLU	1114	53.072	1.749	28.948	1.00	63.29
ATOM	2080	CD	GLU	1114	53.996	2.661	29.772	1.00	67.36
ATOM	2081	OE1	GLU	1114	55.153	2.870	29.329	1.00	67.34
ATOM	2082	OE2	GLU	1114	53.590	3.127	30.873	1.00	68.20
ATOM	2083	C	GLU	1114	51.440	4.031	26.412	1.00	52.22
ATOM	2084	O	GLU	1114	51.830	3.514	25.360	1.00	51.74
ATOM	2085	N	PHE	1115	50.383	4.840	26.486	1.00	49.67
ATOM	2087	CA	PHE	1115	49.603	5.175	25.320	1.00	44.59
ATOM	2088	CB	PHE	1115	48.400	6.013	25.688	1.00	44.73
ATOM	2089	CG	PHE	1115	47.918	6.890	24.579	1.00	49.93
ATOM	2090	CD1	PHE	1115	48.140	8.270	24.621	1.00	50.02
ATOM	2091	CD2	PHE	1115	47.251	6.344	23.477	1.00	53.38
ATOM	2092	CE1	PHE	1115	47.704	9.098	23.577	1.00	52.88
ATOM	2093	CE2	PHE	1115	46.805	7.158	22.425	1.00	51.00
ATOM	2094	CZ	PHE	1115	47.033	8.535	22.474	1.00	54.64
ATOM	2095	C	PHE	1115	50.582	5.981	24.507	1.00	46.08
ATOM	2096	O	PHE	1115	50.929	5.572	23.402	1.00	47.48
ATOM	2097	N	CYS	1116	51.127	7.047	25.101	1.00	43.91
ATOM	2099	CA	CYS	1116	52.109	7.898	24.404	1.00	45.79
ATOM	2100	CB	CYS	1116	52.473	9.113	25.247	1.00	44.47
ATOM	2101	SG	CYS	1116	51.129	9.723	26.295	1.00	64.10
ATOM	2102	C	CYS	1116	53.392	7.140	24.019	1.00	46.03
ATOM	2103	O	CYS	1116	54.232	7.667	23.279	1.00	46.86
ATOM	2104	N	ARG	1117	53.536	5.911	24.529	1.00	44.91
ATOM	2106	CA	ARG	1117	54.688	5.069	24.237	1.00	41.89
ATOM	2107	CB	ARG	1117	54.882	4.001	25.308	1.00	43.78
ATOM	2108	CG	ARG	1117	56.237	3.298	25.233	1.00	45.19
ATOM	2109	CD	ARG	1117	56.189	1.905	25.856	1.00	47.09
ATOM	2110	NE	ARG	1117	55.490	0.922	25.021	1.00	49.55
ATOM	2112	CZ	ARG	1117	54.329	0.337	25.336	1.00	51.59
ATOM	2113	NH1	ARG	1117	53.783	-0.547	24.506	1.00	51.49
ATOM	2116	NH2	ARG	1117	53.695	0.649	26.461	1.00	47.17
ATOM	2119	C	ARG	1117	54.370	4.389	22.927	1.00	38.98
ATOM	2120	O	ARG	1117	55.156	4.455	21.996	1.00	42.49
ATOM	2121	N	ARG	1118	53.206	3.751	22.860	1.00	35.52

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FIG. 7(43)

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ATOM  2123  CA  ARG 1118      52.745   3.072  21.649  1.00 36.78
ATOM  2124  CB  ARG 1118      51.330   2.559  21.880  1.00 31.14
ATOM  2125  CG  ARG 1118      51.216   1.675  23.068  1.00 34.41
ATOM  2126  CD  ARG 1118      49.766   1.587  23.535  1.00 45.83
ATOM  2127  NE  ARG 1118      48.897   0.750  22.693  1.00 53.41
ATOM  2129  CZ  ARG 1118      47.564   0.658  22.826  1.00 55.58
ATOM  2130 NH1 ARG 1118      46.862  -0.144  22.025  1.00 56.70
ATOM  2133 NH2 ARG 1118      46.921   1.380  23.745  1.00 55.55
ATOM  2136  C   ARG 1118      52.742   4.067  20.471  1.00 38.92
ATOM  2137  O   ARG 1118      53.331   3.835  19.400  1.00 38.28
ATOM  2138  N   LEU 1119      52.063   5.186  20.711  1.00 40.67
ATOM  2140  CA  LEU 1119      51.912   6.295  19.779  1.00 36.71
ATOM  2141  CB  LEU 1119      51.192   7.416  20.540  1.00 32.46
ATOM  2142  CG  LEU 1119      50.238   8.508  20.049  1.00 25.91
ATOM  2143 CD1 LEU 1119      51.047   9.651  19.564  1.00 19.62
ATOM  2144 CD2 LEU 1119      49.250   7.993  19.024  1.00 22.26
ATOM  2145  C   LEU 1119      53.301   6.728  19.245  1.00 38.89
ATOM  2146  O   LEU 1119      53.469   6.960  18.047  1.00 43.59
ATOM  2147  N   LYS 1120      54.315   6.771  20.099  1.00 42.22
ATOM  2149  CA  LYS 1120      55.649   7.152  19.640  1.00 41.56
ATOM  2150  CB  LYS 1120      56.523   7.548  20.813  1.00 42.85
ATOM  2151  CG  LYS 1120      57.467   8.670  20.467  1.00 52.51
ATOM  2152  CD  LYS 1120      58.407   8.989  21.620  1.00 60.23
ATOM  2153  CE  LYS 1120      59.298  10.206  21.321  1.00 69.72
ATOM  2154  NZ  LYS 1120      58.605  11.557  21.283  1.00 76.23
ATOM  2158  C   LYS 1120      56.351   6.050  18.825  1.00 43.73
ATOM  2159  O   LYS 1120      57.287   6.342  18.073  1.00 47.49
ATOM  2160  N   GLU 1121      55.892   4.800  18.966  1.00 43.94
ATOM  2162  CA  GLU 1121      56.453   3.636  18.262  1.00 41.07
ATOM  2163  CB  GLU 1121      56.415   2.395  19.147  1.00 48.40
ATOM  2164  CG  GLU 1121      57.553   2.283  20.112  1.00 58.39
ATOM  2165  CD  GLU 1121      57.183   1.451  21.309  1.00 64.79
ATOM  2166 OE1 GLU 1121      56.403   0.483  21.119  1.00 67.43
ATOM  2167 OE2 GLU 1121      57.657   1.778  22.431  1.00 67.24
ATOM  2168  C   GLU 1121      55.739   3.284  16.968  1.00 39.16
ATOM  2169  O   GLU 1121      56.224   2.423  16.216  1.00 39.90
ATOM  2170  N   GLY 1122      54.525   3.805  16.781  1.00 31.72
ATOM  2172  CA  GLY 1122      53.838   3.550  15.531  1.00 22.36
ATOM  2173  C   GLY 1122      52.427   3.064  15.646  1.00 19.85
ATOM  2174  O   GLY 1122      51.791   2.779  14.633  1.00 18.01
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FIG. 7(44)

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ATOM  2175  N   THR 1123      51.918   2.946  16.860  1.00 16.84
ATOM  2177  CA  THR 1123      50.535   2.502  16.989  1.00 22.17
ATOM  2178  CB  THR 1123      50.209   2.144  18.469  1.00 29.75
ATOM  2179  OG1 THR 1123      51.148   1.174  18.971  1.00 31.60
ATOM  2181  CG2 THR 1123      48.794   1.587  18.591  1.00 31.44
ATOM  2182  C   THR 1123      49.653   3.673  16.453  1.00 23.74
ATOM  2183  O   THR 1123      49.940   4.850  16.721  1.00 18.73
ATOM  2184  N   ARG 1124      48.597   3.354  15.701  1.00 22.93
ATOM  2186  CA  ARG 1124      47.735   4.379  15.125  1.00 17.39
ATOM  2187  CB  ARG 1124      48.094   4.680  13.670  1.00 17.70
ATOM  2188  CG  ARG 1124      49.478   5.192  13.406  1.00 14.57
ATOM  2189  CD  ARG 1124      49.713   6.484  14.040  1.00 14.31
ATOM  2190  NE  ARG 1124      51.046   6.935  13.684  1.00 10.98
ATOM  2192  CZ  ARG 1124      52.067   6.988  14.533  1.00 16.02
ATOM  2193  NH1 ARG 1124      51.861   6.604  15.775  1.00 10.96
ATOM  2196  NH2 ARG 1124      53.269   7.468  14.163  1.00  8.74
ATOM  2199  C   ARG 1124      46.317   3.893  15.096  1.00 16.31
ATOM  2200  O   ARG 1124      46.085   2.698  15.022  1.00 20.38
ATOM  2201  N   MET 1125      45.380   4.847  15.081  1.00 21.15
ATOM  2203  CA  MET 1125      43.943   4.570  15.023  1.00 23.81
ATOM  2204  CB  MET 1125      43.158   5.870  15.012  1.00 16.88
ATOM  2205  CG  MET 1125      42.783   6.397  16.380  1.00 17.08
ATOM  2206  SD  MET 1125      41.656   7.825  16.270  1.00 25.19
ATOM  2207  CE  MET 1125      42.908   9.123  15.776  1.00 17.02
ATOM  2208  C   MET 1125      43.604   3.789  13.749  1.00 29.80
ATOM  2209  O   MET 1125      44.298   3.923  12.748  1.00 33.37
ATOM  2210  N   ARG 1126      42.576   2.953  13.806  1.00 36.07
ATOM  2212  CA  ARG 1126      42.116   2.183  12.668  1.00 36.36
ATOM  2213  CB  ARG 1126      41.465   0.859  13.154  1.00 40.10
ATOM  2214  CG  ARG 1126      40.257   1.021  14.061  1.00 54.46
ATOM  2215  CD  ARG 1126      38.956   1.268  13.263  1.00 65.08
ATOM  2216  NE  ARG 1126      37.839   1.758  14.091  1.00 72.39
ATOM  2218  CZ  ARG 1126      36.545   1.753  13.740  1.00 74.53
ATOM  2219  NH1 ARG 1126      35.636   2.233  14.588  1.00 78.72
ATOM  2222  NH2 ARG 1126      36.140   1.267  12.562  1.00 74.28
ATOM  2225  C   ARG 1126      41.124   3.094  11.888  1.00 32.52
ATOM  2226  O   ARG 1126      40.706   4.117  12.380  1.00 34.88
ATOM  2227  N   ALA 1127      40.760   2.725  10.676  1.00 29.80
ATOM  2229  CA  ALA 1127      39.888   3.508   9.812  1.00 29.83
ATOM  2230  CB  ALA 1127      39.743   2.782   8.460  1.00 32.24
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FIG. 7(45)

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ATOM  2231  C   ALA 1127      38.518   3.697  10.415  1.00 34.29
ATOM  2232  O   ALA 1127      37.944   2.727  10.881  1.00 39.95
ATOM  2233  N   PRO 1128      37.943   4.934  10.335  1.00 34.66
ATOM  2234  CD  PRO 1128      38.477   6.142   9.685  1.00 35.04
ATOM  2235  CA  PRO 1128      36.612   5.251  10.871  1.00 31.59
ATOM  2236  CB  PRO 1128      36.511   6.776  10.669  1.00 32.56
ATOM  2237  CG  PRO 1128      37.819   7.222  10.499  1.00 31.06
ATOM  2238  C   PRO 1128      35.648   4.597   9.916  1.00 33.99
ATOM  2239  O   PRO 1128      35.975   4.429   8.749  1.00 38.28
ATOM  2240  N   ASP 1129      34.416   4.371  10.344  1.00 31.98
ATOM  2242  CA  ASP 1129      33.425   3.728   9.489  1.00 34.11
ATOM  2243  CB  ASP 1129      32.157   3.432  10.277  1.00 29.91
ATOM  2244  CG  ASP 1129      32.447   2.811  11.623  1.00 34.04
ATOM  2245  OD1 ASP 1129      33.519   2.172  11.805  1.00 35.22
ATOM  2246  OD2 ASP 1129      31.597   2.976  12.515  1.00 36.43
ATOM  2247  C   ASP 1129      33.061   4.360   8.158  1.00 35.75
ATOM  2248  O   ASP 1129      32.441   3.699   7.312  1.00 38.26
ATOM  2249  N   TYR 1130      33.444   5.613   7.925  1.00 32.58
ATOM  2251  CA  TYR 1130      33.056   6.200   6.649  1.00 34.86
ATOM  2252  CB  TYR 1130      32.067   7.332   6.888  1.00 38.26
ATOM  2253  CG  TYR 1130      30.996   6.960   7.889  1.00 37.51
ATOM  2254  CD1 TYR 1130      31.208   7.153   9.245  1.00 36.44
ATOM  2255  CE1 TYR 1130      30.249   6.853  10.148  1.00 40.00
ATOM  2256  CD2 TYR 1130      29.787   6.442   7.468  1.00 39.18
ATOM  2257  CE2 TYR 1130      28.813   6.143   8.360  1.00 34.53
ATOM  2258  CZ  TYR 1130      29.050   6.353   9.709  1.00 39.16
ATOM  2259  OH  TYR 1130      28.120   6.147  10.690  1.00 47.34
ATOM  2261  C   TYR 1130      34.136   6.657   5.732  1.00 34.80
ATOM  2262  O   TYR 1130      33.853   7.257   4.694  1.00 27.05
ATOM  2263  N   THR 1131      35.388   6.414   6.108  1.00 37.58
ATOM  2265  CA  THR 1131      36.457   6.829   5.238  1.00 38.70
ATOM  2266  CB  THR 1131      37.783   6.598   5.763  1.00 39.57
ATOM  2267  OG1 THR 1131      37.775   5.417   6.564  1.00 51.23
ATOM  2269  CG2 THR 1131      38.250   7.775   6.481  1.00 49.58
ATOM  2270  C   THR 1131      36.476   6.071   3.955  1.00 38.19
ATOM  2271  O   THR 1131      35.913   4.967   3.808  1.00 38.82
ATOM  2272  N   THR 1132      37.297   6.649   3.104  1.00 31.58
ATOM  2274  CA  THR 1132      37.638   6.148   1.836  1.00 27.37
ATOM  2275  CB  THR 1132      37.591   7.302   0.887  1.00 18.06
ATOM  2276  OG1 THR 1132      36.274   7.366   0.348  1.00 29.75
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FIG. 7(46)

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ATOM  2278 CG2 THR 1132      38.528   7.126  -0.161  1.00 32.09
ATOM  2279 C   THR 1132      39.064   5.634   2.159  1.00 31.18
ATOM  2280 O   THR 1132      39.678   6.088   3.149  1.00 37.35
ATOM  2281 N   PRO 1133      39.543   4.601   1.439  1.00 29.49
ATOM  2282 CD  PRO 1133      38.884   3.875   0.336  1.00 28.18
ATOM  2283 CA  PRO 1133      40.876   4.065   1.686  1.00 23.60
ATOM  2284 CB  PRO 1133      41.029   2.998   0.604  1.00 29.05
ATOM  2285 CG  PRO 1133      39.640   2.581   0.319  1.00 28.36
ATOM  2286 C   PRO 1133      41.917   5.122   1.500  1.00 22.87
ATOM  2287 O   PRO 1133      42.944   5.119   2.182  1.00 30.07
ATOM  2288 N   GLU 1134      41.700   5.983   0.511  1.00 18.80
ATOM  2290 CA  GLU 1134      42.656   7.049   0.264  1.00 22.21
ATOM  2291 CB  GLU 1134      42.594   7.573  -1.160  1.00 26.28
ATOM  2292 CG  GLU 1134      41.214   7.564  -1.765  1.00 40.23
ATOM  2293 CD  GLU 1134      40.901   6.347  -2.617  1.00 42.05
ATOM  2294 OE1 GLU 1134      41.727   6.004  -3.504  1.00 44.65
ATOM  2295 OE2 GLU 1134      39.799   5.779  -2.453  1.00 44.07
ATOM  2296 C   GLU 1134      42.547   8.164   1.300  1.00 21.07
ATOM  2297 O   GLU 1134      43.528   8.877   1.543  1.00 20.78
ATOM  2298 N   MET 1135      41.375   8.304   1.940  1.00 20.24
ATOM  2300 CA  MET 1135      41.233   9.304   2.996  1.00 16.52
ATOM  2301 CB  MET 1135      39.775   9.658   3.319  1.00 17.57
ATOM  2302 CG  MET 1135      39.158  10.807   2.420  1.00 15.02
ATOM  2303 SD  MET 1135      40.199  12.320   2.187  1.00 20.17
ATOM  2304 CE  MET 1135      40.632  12.648   3.877  1.00 13.20
ATOM  2305 C   MET 1135      41.974   8.751   4.191  1.00 20.41
ATOM  2306 O   MET 1135      42.772   9.461   4.787  1.00 25.79
ATOM  2307 N   TYR 1136      41.836   7.448   4.445  1.00 20.30
ATOM  2309 CA  TYR 1136      42.565   6.817   5.540  1.00 17.65
ATOM  2310 CB  TYR 1136      42.082   5.394   5.832  1.00 21.89
ATOM  2311 CG  TYR 1136      42.786   4.775   7.041  1.00 26.17
ATOM  2312 CD1 TYR 1136      42.702   5.353   8.325  1.00 20.81
ATOM  2313 CE1 TYR 1136      43.364   4.781   9.427  1.00 17.33
ATOM  2314 CD2 TYR 1136      43.554   3.612   6.900  1.00 26.03
ATOM  2315 CE2 TYR 1136      44.225   3.034   7.998  1.00 12.75
ATOM  2316 CZ  TYR 1136      44.124   3.615   9.245  1.00 16.64
ATOM  2317 OH  TYR 1136      44.791   2.999  10.281  1.00 17.57
ATOM  2319 C   TYR 1136      44.077   6.847   5.267  1.00 14.28
ATOM  2320 O   TYR 1136      44.892   7.066   6.179  1.00 19.62
ATOM  2321 N   GLN 1137      44.479   6.693   4.022  1.00 12.55
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FIG. 7(47)

ATOM	2323	CA	GLN	1137	45.903	6.777	3.758	1.00	16.34
ATOM	2324	CB	GLN	1137	46.218	6.412	2.325	1.00	18.36
ATOM	2325	CG	GLN	1137	47.702	6.654	1.945	1.00	21.79
ATOM	2326	CD	GLN	1137	48.613	5.655	2.561	1.00	14.21
ATOM	2327	OE1	GLN	1137	48.416	4.469	2.381	1.00	22.64
ATOM	2328	NE2	GLN	1137	49.571	6.111	3.344	1.00	18.97
ATOM	2331	C	GLN	1137	46.415	8.193	4.041	1.00	20.40
ATOM	2332	O	GLN	1137	47.598	8.378	4.391	1.00	25.11
ATOM	2333	N	THR	1138	45.564	9.194	3.807	1.00	18.65
ATOM	2335	CA	THR	1138	45.939	10.568	4.068	1.00	15.52
ATOM	2336	CB	THR	1138	44.921	11.507	3.538	1.00	19.97
ATOM	2337	OG1	THR	1138	44.797	11.257	2.144	1.00	18.74
ATOM	2339	CG2	THR	1138	45.381	12.939	3.722	1.00	21.70
ATOM	2340	C	THR	1138	46.111	10.721	5.566	1.00	12.73
ATOM	2341	O	THR	1138	47.067	11.344	6.010	1.00	18.83
ATOM	2342	N	MET	1139	45.233	10.118	6.352	1.00	9.32
ATOM	2344	CA	MET	1139	45.402	10.151	7.809	1.00	12.25
ATOM	2345	CB	MET	1139	44.295	9.349	8.480	1.00	13.21
ATOM	2346	CG	MET	1139	42.967	10.007	8.354	1.00	5.60
ATOM	2347	SD	MET	1139	41.708	8.982	9.003	1.00	17.66
ATOM	2348	CE	MET	1139	40.510	9.337	7.925	1.00	2.00
ATOM	2349	C	MET	1139	46.773	9.567	8.198	1.00	15.96
ATOM	2350	O	MET	1139	47.573	10.237	8.855	1.00	17.30
ATOM	2351	N	LEU	1140	47.058	8.333	7.770	1.00	15.29
ATOM	2353	CA	LEU	1140	48.357	7.735	8.081	1.00	14.20
ATOM	2354	CB	LEU	1140	48.542	6.409	7.326	1.00	6.27
ATOM	2355	CG	LEU	1140	47.511	5.373	7.745	1.00	15.42
ATOM	2356	CD1	LEU	1140	47.656	4.103	6.927	1.00	8.64
ATOM	2357	CD2	LEU	1140	47.648	5.103	9.246	1.00	14.99
ATOM	2358	C	LEU	1140	49.518	8.684	7.751	1.00	17.20
ATOM	2359	O	LEU	1140	50.552	8.691	8.442	1.00	18.73
ATOM	2360	N	ASP	1141	49.396	9.413	6.644	1.00	20.16
ATOM	2362	CA	ASP	1141	50.442	10.374	6.229	1.00	19.52
ATOM	2363	CB	ASP	1141	50.139	10.963	4.851	1.00	20.89
ATOM	2364	CG	ASP	1141	50.228	9.942	3.772	1.00	25.01
ATOM	2365	OD1	ASP	1141	50.537	8.765	4.074	1.00	30.17
ATOM	2366	OD2	ASP	1141	49.994	10.321	2.624	1.00	26.42
ATOM	2367	C	ASP	1141	50.627	11.521	7.207	1.00	15.10
ATOM	2368	O	ASP	1141	51.762	11.905	7.502	1.00	8.73
ATOM	2369	N	CYS	1142	49.504	12.101	7.637	1.00	10.75

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FIG. 7(48)

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ATOM  2371  CA  CYS 1142      49.516  13.196   8.590  1.00 13.88
ATOM  2372  CB  CYS 1142      48.110  13.776   8.739  1.00 17.83
ATOM  2373  SG  CYS 1142      47.414  14.574   7.291  1.00 17.66
ATOM  2374  C   CYS 1142      50.042  12.717   9.961  1.00 15.52
ATOM  2375  O   CYS 1142      50.545  13.513  10.734  1.00 16.31
ATOM  2376  N   TRP 1143      49.883  11.424  10.266  1.00 20.06
ATOM  2378  CA  TRP 1143      50.344  10.830  11.528  1.00 17.66
ATOM  2379  CB  TRP 1143      49.393   9.727  11.991  1.00 15.44
ATOM  2380  CG  TRP 1143      48.041  10.236  12.273  1.00 14.25
ATOM  2381  CD2 TRP 1143      46.814   9.495  12.233  1.00 18.13
ATOM  2382  CE2 TRP 1143      45.774  10.401  12.540  1.00 12.59
ATOM  2383  CE3 TRP 1143      46.490   8.143  11.966  1.00 16.02
ATOM  2384  CD1 TRP 1143      47.710  11.514  12.605  1.00  7.90
ATOM  2385  NE1 TRP 1143      46.355  11.618  12.768  1.00 13.52
ATOM  2387  CZ2 TRP 1143      44.425  10.012  12.592  1.00  8.83
ATOM  2388  CZ3 TRP 1143      45.155   7.755  12.017  1.00 11.61
ATOM  2389  CH2 TRP 1143      44.133   8.691  12.327  1.00 16.83
ATOM  2390  C   TRP 1143      51.765  10.281  11.442  1.00 23.22
ATOM  2391  O   TRP 1143      52.208   9.507  12.298  1.00 27.31
ATOM  2392  N   HIS 1144      52.510  10.722  10.440  1.00 24.48
ATOM  2394  CA  HIS 1144      53.876  10.280  10.299  1.00 26.08
ATOM  2395  CB  HIS 1144      54.495  10.859   9.023  1.00 19.25
ATOM  2396  CG  HIS 1144      55.791  10.214   8.654  1.00 18.57
ATOM  2397  CD2 HIS 1144      56.923  10.003   9.374  1.00 14.60
ATOM  2398  ND1 HIS 1144      56.016   9.657   7.415  1.00 19.61
ATOM  2400  CE1 HIS 1144      57.231   9.133   7.387  1.00 19.99
ATOM  2401  NE2 HIS 1144      57.803   9.332   8.562  1.00 15.04
ATOM  2403  C   HIS 1144      54.710  10.671  11.542  1.00 32.65
ATOM  2404  O   HIS 1144      54.626  11.795  12.031  1.00 31.70
ATOM  2405  N   GLY 1145      55.541   9.734  12.016  1.00 37.26
ATOM  2407  CA  GLY 1145      56.393   9.970  13.168  1.00 31.32
ATOM  2408  C   GLY 1145      57.251  11.212  13.001  1.00 35.04
ATOM  2409  O   GLY 1145      57.372  11.989  13.942  1.00 38.42
ATOM  2410  N   GLU 1146      57.915  11.373  11.852  1.00 34.51
ATOM  2412  CA  GLU 1146      58.735  12.577  11.598  1.00 37.16
ATOM  2413  CB  GLU 1146      59.871  12.303  10.627  1.00 37.16
ATOM  2414  CG  GLU 1146      61.093  11.742  11.292  1.00 50.26
ATOM  2415  CD  GLU 1146      61.186  10.243  11.110  1.00 54.17
ATOM  2416  OE1 GLU 1146      61.158   9.509  12.125  1.00 55.25
ATOM  2417  OE2 GLU 1146      61.280   9.804   9.938  1.00 59.09
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FIG. 7(49)

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ATOM  2418  C   GLU 1146      57.910  13.742  11.052  1.00 36.46
ATOM  2419  O   GLU 1146      57.378  13.665   9.934  1.00 35.72
ATOM  2420  N   PRO 1147      57.861  14.868  11.791  1.00 34.09
ATOM  2421  CD  PRO 1147      58.490  15.147  13.099  1.00 33.72
ATOM  2422  CA  PRO 1147      57.082  16.020  11.336  1.00 29.77
ATOM  2423  CB  PRO 1147      57.446  17.106  12.351  1.00 27.86
ATOM  2424  CG  PRO 1147      57.668  16.334  13.619  1.00 26.72
ATOM  2425  C   PRO 1147      57.436  16.417   9.922  1.00 27.04
ATOM  2426  O   PRO 1147      56.559  16.784   9.158  1.00 30.21
ATOM  2427  N   SER 1148      58.698  16.255   9.551  1.00 22.56
ATOM  2429  CA  SER 1148      59.177  16.616   8.210  1.00 24.23
ATOM  2430  CB  SER 1148      60.707  16.724   8.203  1.00 27.40
ATOM  2431  OG  SER 1148      61.314  15.477   8.545  1.00 36.19
ATOM  2433  C   SER 1148      58.743  15.674   7.101  1.00 21.41
ATOM  2434  O   SER 1148      58.890  15.964   5.913  1.00 24.41
ATOM  2435  N   GLN 1149      58.272  14.508   7.485  1.00 25.45
ATOM  2437  CA  GLN 1149      57.831  13.547   6.497  1.00 26.28
ATOM  2438  CB  GLN 1149      58.224  12.142   6.946  1.00 32.79
ATOM  2439  CG  GLN 1149      59.705  11.907   6.958  1.00 25.96
ATOM  2440  CD  GLN 1149      60.279  12.196   5.622  1.00 32.77
ATOM  2441  OE1 GLN 1149      59.765  11.744   4.591  1.00 36.63
ATOM  2442  NE2 GLN 1149      61.312  13.007   5.604  1.00 37.86
ATOM  2445  C   GLN 1149      56.327  13.670   6.278  1.00 23.40
ATOM  2446  O   GLN 1149      55.783  13.145   5.306  1.00 23.12
ATOM  2447  N   ARG 1150      55.662  14.339   7.215  1.00 22.72
ATOM  2449  CA  ARG 1150      54.226  14.581   7.132  1.00 17.86
ATOM  2450  CB  ARG 1150      53.721  15.243   8.392  1.00 16.38
ATOM  2451  CG  ARG 1150      54.161  14.532   9.598  1.00 13.96
ATOM  2452  CD  ARG 1150      53.285  14.903  10.728  1.00 15.08
ATOM  2453  NE  ARG 1150      53.632  14.090  11.879  1.00 24.55
ATOM  2455  CZ  ARG 1150      54.066  14.564  13.040  1.00 27.63
ATOM  2456  NH1 ARG 1150      54.192  15.871  13.230  1.00 27.18
ATOM  2459  NH2 ARG 1150      54.423  13.717  13.991  1.00 29.34
ATOM  2462  C   ARG 1150      54.025  15.559   6.008  1.00 16.82
ATOM  2463  O   ARG 1150      54.913  16.382   5.715  1.00 13.09
ATOM  2464  N   PRO 1151      52.873  15.464   5.320  1.00 18.01
ATOM  2465  CD  PRO 1151      51.793  14.453   5.320  1.00  6.32
ATOM  2466  CA  PRO 1151      52.726  16.442   4.240  1.00 18.95
ATOM  2467  CB  PRO 1151      51.489  15.948   3.492  1.00 16.01
ATOM  2468  CG  PRO 1151      50.726  15.092   4.520  1.00 10.59
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FIG. 7(50)

ATOM	2469	C	PRO	1151	52.574	17.861	4.805	1.00	18.27
ATOM	2470	O	PRO	1151	52.422	18.039	6.006	1.00	19.70
ATOM	2471	N	THR	1152	52.763	18.860	3.958	1.00	19.16
ATOM	2473	CA	THR	1152	52.604	20.251	4.366	1.00	14.92
ATOM	2474	CB	THR	1152	53.511	21.138	3.560	1.00	13.80
ATOM	2475	OG1	THR	1152	53.146	21.080	2.163	1.00	17.02
ATOM	2477	CG2	THR	1152	54.918	20.697	3.764	1.00	5.40
ATOM	2478	C	THR	1152	51.196	20.571	3.979	1.00	13.16
ATOM	2479	O	THR	1152	50.682	19.905	3.084	1.00	19.18
ATOM	2480	N	PHE	1153	50.561	21.572	4.599	1.00	14.62
ATOM	2482	CA	PHE	1153	49.176	21.910	4.224	1.00	12.87
ATOM	2483	CB	PHE	1153	48.588	23.023	5.083	1.00	11.95
ATOM	2484	CG	PHE	1153	48.157	22.558	6.422	1.00	9.67
ATOM	2485	CD1	PHE	1153	47.037	21.740	6.560	1.00	14.91
ATOM	2486	CD2	PHE	1153	48.891	22.857	7.533	1.00	15.01
ATOM	2487	CE1	PHE	1153	46.660	21.215	7.802	1.00	9.44
ATOM	2488	CE2	PHE	1153	48.529	22.340	8.789	1.00	13.43
ATOM	2489	CZ	PHE	1153	47.405	21.513	8.913	1.00	8.41
ATOM	2490	C	PHE	1153	49.073	22.253	2.750	1.00	16.98
ATOM	2491	O	PHE	1153	48.078	21.927	2.114	1.00	21.60
ATOM	2492	N	SER	1154	50.116	22.841	2.168	1.00	15.39
ATOM	2494	CA	SER	1154	50.031	23.123	0.754	1.00	17.55
ATOM	2495	CB	SER	1154	51.251	23.868	0.254	1.00	25.28
ATOM	2496	OG	SER	1154	51.244	25.190	0.776	1.00	33.35
ATOM	2498	C	SER	1154	49.850	21.815	0.022	1.00	20.26
ATOM	2499	O	SER	1154	48.932	21.704	-0.798	1.00	23.74
ATOM	2500	N	GLU	1155	50.670	20.808	0.347	1.00	19.47
ATOM	2502	CA	GLU	1155	50.534	19.493	-0.307	1.00	16.55
ATOM	2503	CB	GLU	1155	51.588	18.513	0.188	1.00	19.82
ATOM	2504	CG	GLU	1155	52.932	18.773	-0.486	1.00	20.20
ATOM	2505	CD	GLU	1155	54.128	18.210	0.249	1.00	23.11
ATOM	2506	OE1	GLU	1155	55.226	18.377	-0.312	1.00	35.76
ATOM	2507	OE2	GLU	1155	54.009	17.631	1.359	1.00	21.09
ATOM	2508	C	GLU	1155	49.153	18.918	-0.107	1.00	16.59
ATOM	2509	O	GLU	1155	48.548	18.414	-1.055	1.00	21.37
ATOM	2510	N	LEU	1156	48.619	19.034	1.101	1.00	16.01
ATOM	2512	CA	LEU	1156	47.272	18.532	1.375	1.00	18.06
ATOM	2513	CB	LEU	1156	46.969	18.521	2.875	1.00	15.74
ATOM	2514	CG	LEU	1156	47.688	17.493	3.759	1.00	11.35
ATOM	2515	CD1	LEU	1156	47.786	18.049	5.201	1.00	2.08

FIG. 7(51)

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ATOM  2516  CD2 LEU  1156      46.927  16.150   3.708  1.00 14.36
ATOM  2517  C   LEU  1156      46.165  19.287   0.638  1.00 20.03
ATOM  2518  O   LEU  1156      45.105  18.711   0.355  1.00 26.86
ATOM  2519  N   VAL  1157      46.354  20.570   0.355  1.00 21.44
ATOM  2521  CA  VAL  1157      45.303  21.283  -0.362  1.00 21.15
ATOM  2522  CB  VAL  1157      45.513  22.801  -0.381  1.00 21.33
ATOM  2523  CG1 VAL  1157      44.569  23.453  -1.368  1.00 15.98
ATOM  2524  CG2 VAL  1157      45.198  23.340   0.974  1.00 13.87
ATOM  2525  C   VAL  1157      45.270  20.721  -1.760  1.00 22.88
ATOM  2526  O   VAL  1157      44.198  20.508  -2.333  1.00 25.54
ATOM  2527  N   GLU  1158      46.445  20.400  -2.282  1.00 23.10
ATOM  2529  CA  GLU  1158      46.503  19.815  -3.603  1.00 27.24
ATOM  2530  CB  GLU  1158      47.922  19.756  -4.115  1.00 32.82
ATOM  2531  CG  GLU  1158      47.969  18.978  -5.404  1.00 44.73
ATOM  2532  CD  GLU  1158      49.187  19.268  -6.212  1.00 51.53
ATOM  2533  OE1 GLU  1158      49.007  19.887  -7.292  1.00 54.31
ATOM  2534  OE2 GLU  1158      50.298  18.869  -5.765  1.00 51.10
ATOM  2535  C   GLU  1158      45.939  18.403  -3.643  1.00 26.42
ATOM  2536  O   GLU  1158      45.167  18.051  -4.546  1.00 25.91
ATOM  2537  N   HIS  1159      46.347  17.591  -2.669  1.00 26.36
ATOM  2539  CA  HIS  1159      45.897  16.226  -2.611  1.00 21.52
ATOM  2540  CB  HIS  1159      46.674  15.444  -1.576  1.00 25.28
ATOM  2541  CG  HIS  1159      46.322  13.991  -1.545  1.00 24.66
ATOM  2542  CD2 HIS  1159      46.408  13.030  -2.497  1.00 24.44
ATOM  2543  ND1 HIS  1159      45.749  13.387  -0.452  1.00 21.30
ATOM  2545  CE1 HIS  1159      45.489  12.125  -0.731  1.00 23.16
ATOM  2546  NE2 HIS  1159      45.879  11.884  -1.961  1.00 19.88
ATOM  2548  C   HIS  1159      44.402  16.104  -2.391  1.00 21.56
ATOM  2549  O   HIS  1159      43.741  15.311  -3.066  1.00 22.19
ATOM  2550  N   LEU  1160      43.852  16.874  -1.456  1.00 20.25
ATOM  2552  CA  LEU  1160      42.408  16.832  -1.209  1.00 17.66
ATOM  2553  CB  LEU  1160      42.111  17.502   0.130  1.00 17.84
ATOM  2554  CG  LEU  1160      42.676  16.760   1.352  1.00 20.17
ATOM  2555  CD1 LEU  1160      42.472  17.542   2.619  1.00 21.45
ATOM  2556  CD2 LEU  1160      41.992  15.454   1.512  1.00 19.45
ATOM  2557  C   LEU  1160      41.566  17.418  -2.395  1.00 17.71
ATOM  2558  O   LEU  1160      40.426  17.030  -2.624  1.00 15.39
ATOM  2559  N   GLY  1161      42.130  18.356  -3.153  1.00 23.52
ATOM  2561  CA  GLY  1161      41.434  18.879  -4.322  1.00 21.37
ATOM  2562  C   GLY  1161      41.342  17.741  -5.346  1.00 23.91
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FIG. 7(52)

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ATOM  2563  O   GLY  1161      40.295  17.526  -5.971  1.00 23.05
ATOM  2564  N   ASN  1162      42.439  16.997  -5.520  1.00 21.49
ATOM  2566  CA  ASN  1162      42.428  15.854  -6.428  1.00 22.31
ATOM  2567  CB  ASN  1162      43.771  15.109  -6.427  1.00 22.34
ATOM  2568  CG  ASN  1162      44.904  15.888  -7.062  1.00 20.03
ATOM  2569  OD1 ASN  1162      44.705  16.903  -7.701  1.00 28.17
ATOM  2570  ND2 ASN  1162      46.117  15.401  -6.873  1.00 32.22
ATOM  2573  C   ASN  1162      41.356  14.851  -5.969  1.00 23.05
ATOM  2574  O   ASN  1162      40.570  14.378  -6.769  1.00 26.11
ATOM  2575  N   LEU  1163      41.360  14.490  -4.688  1.00 21.05
ATOM  2577  CA  LEU  1163      40.405  13.523  -4.166  1.00 19.91
ATOM  2578  CB  LEU  1163      40.695  13.172  -2.689  1.00 19.18
ATOM  2579  CG  LEU  1163      41.675  12.042  -2.275  1.00 18.62
ATOM  2580  CD1 LEU  1163      42.959  12.120  -3.020  1.00 24.35
ATOM  2581  CD2 LEU  1163      41.983  12.043  -0.804  1.00 14.82
ATOM  2582  C   LEU  1163      39.015  14.038  -4.331  1.00 19.71
ATOM  2583  O   LEU  1163      38.110  13.318  -4.767  1.00 23.11
ATOM  2584  N   LEU  1164      38.860  15.328  -4.121  1.00 25.91
ATOM  2586  CA  LEU  1164      37.533  15.941  -4.226  1.00 29.28
ATOM  2587  CB  LEU  1164      37.603  17.388  -3.726  1.00 31.25
ATOM  2588  CG  LEU  1164      36.348  18.176  -3.371  1.00 25.75
ATOM  2589  CD1 LEU  1164      35.429  17.396  -2.435  1.00 31.52
ATOM  2590  CD2 LEU  1164       7.018  15.866  -5.653  1.00 30.07
ATOM  2592  O   LEU  1164      35.953  15.330  -5.903  1.00 32.61
ATOM  2593  N   GLN  1165      37.810  16.344  -6.598  1.00 33.76
ATOM  2595  CA  GLN  1165      37.423  16.317  -8.003  1.00 39.95
ATOM  2596  CB  GLN  1165      38.451  17.048  -8.855  1.00 46.90
ATOM  2597  CG  GLN  1165      38.758  18.474  -8.480  1.00 49.81
ATOM  2598  CD  GLN  1165      39.874  19.024  -9.348  1.00 56.23
ATOM  2599  OE1 GLN  1165      41.056  18.945  -8.997  1.00 55.97
ATOM  2600  NE2 GLN  1165      39.508  19.536 -10.518  1.00 60.66
ATOM  2603  C   GLN  1165      37.304  14.898  -8.554  1.00 39.33
ATOM  2604  O   GLN  1165      36.652  14.685  -9.568  1.00 42.09
ATOM  2605  N   ALA  1166      38.059  13.965  -7.988  1.00 36.82
ATOM  2607  CA  ALA  1166      37.994  12.586  -8.441  1.00 34.66
ATOM  2608  CB  ALA  1166      39.096  11.748  -7.814  1.00 32.78
ATOM  2609  C   ALA  1166      36.640  12.103  -7.991  1.00 36.63
ATOM  2610  O   ALA  1166      35.969  11.381  -8.713  1.00 39.47
ATOM  2611  N   ASN  1167      36.226  12.532  -6.800  1.00 40.01
ATOM  2613  CA  ASN  1167      34.911  12.158  -6.264  1.00 42.40
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FIG. 7(53)

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ATOM  2614  CB  ASN  1167      34.641  12.878  -4.919  1.00 42.99
ATOM  2615  CG  ASN  1167      33.354  12.409  -4.242  1.00 40.80
ATOM  2616  OD1 ASN  1167      32.306  13.046  -4.348  1.00 40.18
ATOM  2617  ND2 ASN  1167      33.436  11.294  -3.532  1.00 36.58
ATOM  2620  C   ASN  1167      33.822  12.498  -7.299  1.00 41.88
ATOM  2621  O   ASN  1167      32.837  11.789  -7.391  1.00 41.83
ATOM  2622  N   ALA  1168      34.057  13.558  -8.085  1.00 45.09
ATOM  2624  CA  ALA  1168      33.187  14.065  -9.160  1.00 46.02
ATOM  2625  CB  ALA  1168      32.507  12.933  -9.929  1.00 45.92
ATOM  2626  C   ALA  1168      32.181  15.123  -8.728  1.00 48.61
ATOM  2628  O   ALA  1168      32.627  16.233  -8.363  1.00 50.20
ATOM  2629  O   HOH    1      46.858  21.496  16.690  1.00 23.54
ATOM  2632  O   HOH    2      49.904  21.605  17.271  1.00 36.65
ATOM  2635  O   HOH    3      49.682  18.133  17.657  1.00 50.47
ATOM  2638  O   HOH    4      56.606  19.394  15.202  1.00 25.28
ATOM  2641  O   HOH    5      57.215  21.949  11.395  1.00 37.66
ATOM  2644  O   HOH    6      56.082  25.850  12.933  1.00 34.63
ATOM  2647  O   HOH    7      52.355  23.016   6.377  1.00 21.45
ATOM  2650  O   HOH    8      51.153  27.376   4.088  1.00 29.93
ATOM  2653  O   HOH    9      44.820  28.454   1.120  1.00 16.47
ATOM  2656  O   HOH   10      46.377  38.321   5.198  1.00 31.93
ATOM  2659  O   HOH   11      43.987  38.133   3.129  1.00 52.41
ATOM  2662  O   HOH   12      53.321  40.451   6.702  1.00 31.88
ATOM  2665  O   HOH   13      44.977  49.530   8.305  1.00 44.56
ATOM  2668  O   HOH   14      44.379  43.338   7.798  1.00 31.72
ATOM  2671  O   HOH   15      39.477  40.232   8.468  1.00 36.65
ATOM  2674  O   HOH   16      41.987  36.751  10.646  1.00 23.26
ATOM  2677  O   HOH   17      41.711  41.873   6.802  1.00 34.79
ATOM  2680  O   HOH   18      29.514  24.656  18.739  1.00 31.43
ATOM  2683  O   HOH   19      27.493  22.351  15.517  1.00 42.03
ATOM  2686  O   HOH   20      24.345  20.097  15.325  1.00 24.92
ATOM  2689  O   HOH   21      32.381  18.452  20.520  1.00 75.12
ATOM  2692  O   HOH   22      31.071   8.282  19.507  1.00 31.68
ATOM  2695  O   HOH   23      33.001   7.742  21.598  1.00 38.67
ATOM  2698  O   HOH   24      34.802   6.439  18.667  1.00 34.24
ATOM  2701  O   HOH   25      32.273   6.932  14.174  1.00 41.21
ATOM  2704  O   HOH   26      34.059   5.245  12.870  1.00 49.30
ATOM  2707  O   HOH   27      38.059   3.432   4.799  1.00 63.69
ATOM  2710  O   HOH   28      41.089   1.841   4.421  1.00 42.86
ATOM  2713  O   HOH   29      45.081   9.234  -0.557  1.00 39.97
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FIG. 7(54)

ATOM	2716	O	HOH	30	47.301	11.215	1.271	1.00	58.47
ATOM	2719	O	HOH	31	50.046	14.055	0.168	1.00	37.58
ATOM	2722	O	HOH	32	54.425	8.937	4.821	1.00	36.74
ATOM	2725	O	HOH	33	52.279	7.099	5.152	1.00	13.04
ATOM	2728	O	HOH	34	53.025	7.510	7.740	1.00	25.53
ATOM	2731	O	HOH	35	50.852	6.818	10.462	1.00	18.29
ATOM	2734	O	HOH	36	46.448	7.762	15.254	1.00	9.08
ATOM	2737	O	HOH	37	47.326	3.930	20.460	1.00	34.16
ATOM	2740	O	HOH	38	48.264	12.367	20.804	1.00	22.14
ATOM	2743	O	HOH	39	44.276	8.193	24.312	1.00	40.52
ATOM	2746	O	HOH	40	37.491	11.237	25.975	1.00	38.71
ATOM	2749	O	HOH	41	37.592	13.565	23.164	1.00	44.55
ATOM	2752	O	HOH	42	34.887	12.418	26.235	1.00	50.96
ATOM	2755	O	HOH	43	24.823	15.933	17.377	1.00	33.72
ATOM	2758	O	HOH	44	23.302	7.532	7.049	1.00	57.56
ATOM	2761	O	HOH	45	29.954	11.864	-3.109	1.00	38.05
ATOM	2764	O	HOH	46	42.099	3.812	18.044	1.00	40.12
ATOM	2767	O	HOH	47	38.653	0.737	18.003	1.00	37.30
ATOM	2770	O	HOH	48	34.169	14.465	16.707	1.00	20.01
ATOM	2773	O	HOH	49	37.055	32.622	16.570	1.00	31.20
ATOM	2776	O	HOH	50	29.361	31.729	15.460	1.00	21.90
ATOM	2779	O	HOH	51	25.866	31.495	10.192	1.00	24.50
ATOM	2782	O	HOH	52	23.411	32.276	10.616	1.00	68.85
ATOM	2785	O	HOH	53	22.135	37.404	8.648	1.00	40.22
ATOM	2788	O	HOH	54	28.356	36.997	10.747	1.00	22.41
ATOM	2791	O	HOH	55	29.650	33.190	8.897	1.00	31.98
ATOM	2794	O	HOH	56	34.801	35.904	3.297	1.00	59.73
ATOM	2797	O	HOH	57	24.341	20.715	4.934	1.00	28.10
ATOM	2800	O	HOH	58	37.439	20.236	25.832	1.00	33.07
ATOM	2803	O	HOH	59	32.675	51.977	19.122	1.00	33.52
ATOM	2806	O	HOH	60	32.722	54.003	14.118	1.00	25.01
ATOM	2809	O	HOH	61	29.691	54.769	22.004	1.00	27.32
ATOM	2812	O	HOH	62	21.347	47.577	14.711	1.00	27.85
ATOM	2815	O	HOH	63	25.640	44.257	7.516	1.00	24.71
ATOM	2818	O	HOH	64	24.686	40.916	3.785	1.00	55.13
ATOM	2821	O	HOH	65	33.825	48.721	10.105	1.00	39.11
ATOM	2824	O	HOH	66	39.855	54.415	18.247	1.00	50.97
ATOM	2827	O	HOH	67	36.001	50.053	7.081	1.00	68.99
ATOM	2830	O	HOH	68	37.973	50.651	5.331	1.00	32.12
ATOM	2833	O	HOH	69	40.220	53.227	6.506	1.00	15.02

FIG. 7(55)

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ATOM  2836  O   HOH   70      42.258  51.833   6.993  1.00 21.05
ATOM  2839  O   HOH   71      36.813  55.217  13.035  1.00 46.29
ATOM  2842  O   HOH   72      37.030  55.879  15.712  1.00 39.36
ATOM  2845  O   HOH   73      23.054  45.061  23.607  1.00 51.11
ATOM  2848  O   HOH   74      27.075  54.516   6.971  1.00 51.66
ATOM  2851  O   HOH   75      21.634  54.039  13.651  1.00 36.36
ATOM  2854  O   HOH   76      45.158  47.529  30.699  1.00 56.11
ATOM  2857  O   HOH   77      44.469  45.246  36.699  1.00 36.50
ATOM  2860  O   HOH   78      45.882  41.717  36.085  1.00 28.57
ATOM  2863  O   HOH   79      49.406  41.527  34.292  1.00 65.94
ATOM  2866  O   HOH   80      36.134  49.719  26.101  1.00 63.80
ATOM  2869  O   HOH   81      26.884  28.564  16.554  1.00 49.20
ATOM  2872  O   HOH   82      22.079  10.131  13.444  1.00 56.45
ATOM  2875  O   HOH   83      41.225   4.655  30.464  1.00 58.98
ATOM  2878  O   HOH   84      47.309   1.568  10.326  1.00 21.69
ATOM  2881  O   HOH   85      56.613  18.335   6.527  1.00 33.97
ATOM  2884  O   HOH   86      56.196  16.855   3.275  1.00 47.24
ATOM  2887  O   HOH   87      54.826  22.813   0.598  1.00 33.50
ATOM  2890  O   HOH   88      52.962  21.915  -2.351  1.00 66.62
ATOM  2893  O   HOH   89      47.896  24.242  -3.714  1.00 40.99
ATOM  2896  O   HOH   90      40.295  22.360  25.551  1.00 39.81
ATOM  2899  O   HOH   91      40.188   3.202  15.661  1.00 45.97
ATOM  2902  O   HOH   92      45.159   2.965  19.553  1.00 44.25
ATOM  2905  O   HOH   93      36.591   7.772  23.374  1.00 68.23
ATOM  2908  O   HOH   94      34.274   5.197  22.878  1.00 51.62
ATOM  2911  O   HOH   95      41.935   7.033  29.073  1.00 63.23
ATOM  2914  O   HOH   96      20.731  12.105  14.716  1.00 54.80
ATOM  2917  O   HOH   97      23.147  13.682  17.882  1.00 50.81
ATOM  2920  O   HOH   98      35.515   9.509  -3.558  1.00 56.70
ATOM  2923  O   HOH   99      38.933   9.503  -1.231  1.00 32.18
ATOM  2926  O   HOH  100      51.814  24.438   3.703  1.00 52.00
ATOM  2929  O   HOH  101      51.670  28.690   0.838  1.00 42.41
ATOM  2932  O   HOH  102      46.536  30.610   1.750  1.00 45.80
ATOM  2935  O   HOH  103      45.165  34.214   0.818  1.00 46.46
ATOM  2938  O   HOH  104      42.695  35.194   1.055  1.00 25.82
ATOM  2941  O   HOH  105      39.689  33.418   0.723  1.00 31.99
ATOM  2944  O   HOH  106      23.962  38.119  27.549  1.00 47.89
ATOM  2947  O   HOH  107      25.343  40.908  27.379  1.00 54.09
ATOM  2950  O   HOH  108      20.307  35.738  19.866  1.00 32.61
ATOM  2953  O   HOH  109      28.085  54.303  18.810  1.00 61.58
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FIG. 7(56)

ATOM	2956	O	HOH	110	29.849	56.131	16.966	1.00	37.29
ATOM	2959	O	HOH	111	31.503	58.023	14.735	1.00	46.45
ATOM	2962	O	HOH	112	35.212	55.981	10.499	1.00	92.07
ATOM	2965	O	HOH	113	36.530	55.812	6.656	1.00	30.72
ATOM	2968	O	HOH	114	50.045	41.251	26.059	1.00	82.26
ATOM	2971	O	HOH	115	25.153	36.460	9.054	1.00	50.86
ATOM	2974	O	HOH	116	31.749	32.705	15.359	1.00	30.04
ATOM	2977	O	HOH	117	30.213	3.806	4.940	1.00	39.74
ATOM	2980	O	HOH	118	36.511	1.159	7.275	1.00	41.62
ATOM	2983	O	HOH	119	27.155	4.637	5.224	1.00	79.92
ATOM	2986	O	HOH	120	57.319	11.287	3.459	1.00	33.02
ATOM	2989	O	HOH	121	52.121	12.483	1.755	1.00	45.55
ATOM	2992	O	HOH	122	47.613	14.088	-5.021	1.00	41.01
ATOM	2995	O	HOH	123	57.550	26.628	16.551	1.00	30.62
ATOM	2998	O	HOH	124	32.338	10.125	23.559	1.00	35.48
ATOM	3001	O	HOH	125	31.065	5.698	3.273	1.00	42.74
ATOM	3004	O	HOH	126	32.603	4.523	1.410	1.00	33.30
ATOM	3007	O	HOH	127	34.394	2.617	4.702	1.00	42.12
ATOM	3010	O	HOH	128	37.961	10.373	-4.287	1.00	47.57
ATOM	3013	O	HOH	129	42.215	11.947	-6.970	1.00	45.13
ATOM	3016	O	HOH	130	46.307	8.952	-4.280	1.00	70.02
ATOM	3019	O	HOH	131	50.369	17.388	-3.277	1.00	42.22
ATOM	3022	O	HOH	132	47.231	21.866	22.930	1.00	50.84
ATOM	3025	O	HOH	133	45.362	17.669	27.147	1.00	48.06
ATOM	3028	O	HOH	134	27.005	23.141	18.124	1.00	49.65
ATOM	3031	O	HOH	135	45.726	12.511	-6.453	1.00	45.31
ATOM	3034	O	HOH	136	46.998	11.755	18.088	1.00	37.38
ATOM	3037	O	HOH	137	39.706	37.699	9.894	1.00	40.71
ATOM	3040	O	HOH	138	18.768	48.678	17.798	1.00	74.62
ATOM	3043	O	HOH	139	43.641	47.080	26.762	1.00	44.64
ATOM	3046	O	HOH	140	32.593	53.980	16.744	1.00	43.95
ATOM	3049	O	HOH	141	34.726	55.568	14.399	1.00	45.86
ATOM	3052	O	HOH	142	30.551	53.227	19.638	1.00	35.99
ATOM	3055	O	HOH	143	26.370	55.161	14.300	1.00	33.09
ATOM	3058	O	HOH	144	24.547	55.803	6.815	1.00	58.70
ATOM	3061	O	HOH	145	36.217	52.574	3.221	1.00	68.48
ATOM	3064	O	HOH	146	39.065	54.455	4.595	1.00	48.85
ATOM	3067	O	HOH	147	45.130	40.725	5.433	1.00	62.58
ATOM	3070	O	HOH	148	33.453	43.988	7.386	1.00	41.59
ATOM	3073	O	HOH	149	36.626	45.045	6.144	1.00	54.04

FIG. 7(57)

ATOM	3076	O	HOH	150	19.458	36.977	14.386	1.00	56.50
ATOM	3079	O	HOH	151	19.502	40.993	17.850	1.00	43.35
ATOM	3082	O	HOH	152	39.793	38.257	27.760	1.00	63.31
ATOM	3085	O	HOH	153	40.730	53.944	20.682	1.00	49.91
ATOM	3088	O	HOH	154	45.371	49.402	5.710	1.00	41.53
ATOM	3091	O	HOH	155	49.114	26.038	11.482	1.00	34.43
ATOM	3094	O	HOH	156	54.085	28.403	10.828	1.00	28.60
ATOM	3097	O	HOH	157	18.729	14.990	12.752	1.00	44.66
ATOM	3100	O	HOH	158	27.500	2.046	10.138	1.00	47.88
ATOM	3103	O	HOH	159	23.505	7.763	16.082	1.00	45.49
ATOM	3106	O	HOH	160	38.101	22.326	23.406	1.00	43.42
ATOM	3109	O	HOH	161	36.788	33.961	0.261	1.00	59.95
ATOM	3112	O	HOH	162	19.380	27.777	6.595	1.00	56.29
ATOM	3115	O	HOH	163	33.583	33.343	17.339	1.00	68.25
ATOM	3118	O	HOH	164	43.221	53.467	17.853	1.00	62.89
ATOM	3121	O	HOH	165	28.154	41.110	29.042	1.00	61.19
ATOM	3124	O	HOH	166	44.877	47.914	12.583	1.00	21.27
ATOM	3127	O	HOH	167	46.589	45.908	14.329	1.00	39.48
ATOM	3130	O	HOH	168	48.235	43.490	14.297	1.00	46.88
ATOM	3133	O	HOH	169	47.834	0.528	14.762	1.00	74.55
ATOM	3136	O	HOH	170	48.711	-2.009	16.386	1.00	52.45
ATOM	3139	O	HOH	171	41.210	0.396	17.381	1.00	58.05
ATOM	3142	O	HOH	172	43.837	1.538	17.483	1.00	72.30
ATOM	3145	O	HOH	173	41.780	-2.478	14.396	1.00	47.15
ATOM	3148	O	HOH	174	31.466	11.699	21.418	1.00	45.99
ATOM	3151	O	HOH	175	35.046	14.218	20.429	1.00	39.37
ATOM	3154	O	HOH	176	22.639	26.143	4.324	1.00	36.80
ATOM	3157	O	HOH	177	26.114	24.452	6.028	1.00	31.04
ATOM	3160	O	HOH	178	28.927	30.687	4.252	1.00	41.38
ATOM	3163	O	HOH	179	23.899	6.610	18.621	1.00	56.43
ATOM	3166	O	HOH	180	53.386	11.969	4.493	1.00	39.86
ATOM	3169	O	HOH	181	30.051	43.727	0.910	1.00	47.97
ATOM	3172	O	HOH	182	31.659	49.099	8.149	1.00	52.84